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# DATA PROCESSING BRANCH **USAFETAC**

SCOTT AFB, IL 62285

Air Weather Service (MAC)

125 MAR 1981

#### REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

MAUI OPTICAL SITE HI

NORTH TOWER

WBAN #00001

PARTS C, E-F POR FROM HOURLY OBS: NOV 77 - MAR 80, JUL - OCT 80

MAUI OPTICAL SITE HI

SOUTH TOWER

WBAN #00002

POR FROM HOURLY OBS: DEC 77 - MAR 80, JUL 80 - AUG 80

MAR 2 3 1981

FEDERAL BUILDING ASHEVILLE, N. C.

### DISTRIBUTION STATEMENT A

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REPORT NUMBER 2 GOVT ACCESSION NO	3. RECIPIENT'S CATALOG NUMBER
USAFETAC/DS-81/048	
TITLE (end Subtitle)	S. TYPE OF REPORT & PERIOD COVERED
Revised Uniform Summary of Surface Weather	Final rept.
Observations (RUSSWO)- MAUI OPTICAL SITE,	6 PERFORMING ORG REPORT NUMBER
MT HALEKUALIA, HAWAII	6 PERFORMING ONG NEPON NO.
AUTHORITUA	8 CONTRACT OR GRANT NUMBER: 3)
DESPONMING CROAN ZATION NAME AND ADDRESS	10 PROGRAM ELEMENT, PROJECT TASK
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Air Force Environmental Technical Appl. Center Scott AFB IL 62225	
	12 REPORT DATE
USAFETAC/CBD	23 MAR 81
Air Weather Service (MAC)	13 NUMBER OF PAGES
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This report is a six-part statisitical summary of surface weather observations of MAUI OPTICAL SITE, MT HALEKUALIA, HAWAII It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibi'ity; Sky Cover; (E) Psychroretric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)

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- 19. Percentage frenquency of distribution tables Dry-bulb temperature versus wet-bulb temperature Cumulative percentage frequency of distribution tables \* HAWAII \* MAUI OPTICAL SITE
- 20. and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurance or cumulative percentage frequency of occuring tables.

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### PART C .

### SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Quets: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak guets for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Heans and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Yederal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knote) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarised in the appropriate groups opposite the column headed WRL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual all hours combined, (2) By month all hours combined, and (3) By month by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00001	MAUI OPTICAL SITE HI NORTH TOWER	79-80	JAN			
STATION	STATION NAME	YEARS	MONTH			
	ALL WE	0000-0200				
	CLA98					
	CON	DITION				

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	4 - 55	5#	*	MEAN WIND SPEED
М		1.7	1.1	3.4	• 6	• 6						7.4	12.2
HNE		1.7	1.1	3.4		1.1	• 6					7.0	13.6
NE		• 6	2.3	5.1	1.1							9.1	12.1
EME		. 6	5.1	8.0	1.1	• 6	• 8					15.9	12.9
ŧ			1.1	1.1	1.1					L		3.4	13.7
t\$t	. 6		. 6	1.7								2.8	9.2
\$4		• 6	1.1									1.7	8.3
356		1.1										1.1	6.0
8			1.1	. 6	• 6	1.1						13.4	16.3
SSW	1.1	1.7	• 6									3.4	5.3
\$W		1.1	1.1	1.7	2.8	2.3	1.1	. 6				10.8	18.7
wsw	. 6	1.1	• 6	1.7		1.1						5.1	13.0
w		2.3		2.8								5.1	10.1
WNW		.1.7		2.3			• 6					4.5	11.4
NW	.6	1.7	2.8	1.1	, 6		1.1					8.0	11.9
NNW	. 6	1.7	2.8	2.3	• 6	1.7	. 6			i		10.2	12.9
VARM													
CALM	$\times$	$\boxtimes$	$\times$	$\geq \leq$	$>\!\!<$	$>\!\!<$	$\times$	> <	$\geq \leq$	$\ge $	$\boxtimes$		
	3.4	17.6	21.6	35.2	8.5	8.5	4.5	. 6			1	100.0	12.8

TOTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OCGO1	MAUL OPTICAL SITE HI NORTH TOWER	78-80 YEARS	JAN MONTH
•1	ALL WE		0300-0500 House (L.s.y.)
	CON	BITION	

SPEED (KNTS) DIR.	1.3	4 - 4	7 - 10	11 - 16 ,	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	4 - 33	584	*	MEAN WIND SPEED
н		2.3	. 6	• 6		• 6	1.2	1.2				6.4	17.5
NNE	.6	2.3	1.2	4.0		1.7						9.8	12.8
HE		1.2	3.5	4.6	1.2				Ĺ			10.4	11.4
ENE	.6	1.2	1.7	5.2	3.5	1.7						13.9	13.9
E .		1.7	1.7		.6	.6						4.6	10.9
283		.6	1.2									1.7	W . 3
3.6			1.7	. 6								2.3	9.0
338		1.2	. 6	1.2		• 6						3,5	11.7
\$		1.2		. 5	. 6	. 6				I		2.9	13.6
\$5W	• 6	2.3	• 6	.6		.6						4.6	9.0
sw	.6	1.7		2.3	2.3	1.2			`			8.1	13.7
WSW		2.3	. 6	3.5	1.2	. 6	. 6					8.7	13.4
W	Γ			2.3		. 6						2.9	15.6
WNW	1.2	.6	1.2	. 5	. 6	. 6						4.6	9.8
NW	6	2.3	. 6	2.3	1.2							6.9	10.4
NNW		1.2	2.3	2.9	1.7							8.7	11.4
VARBL	i i												
CALM	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\geq \leq$	> <	$\supset <$	$>\!\!<$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\geq \leq$		
	4.5	22.5	17.3	31.2	12.7	9.2	1.7	1.2				100.0	12.4

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION .	MAUL OPTICAL SITE HI NORTH TOMER	78-80 YEARS	MONTH
		ATHER	0600-0800 HOURS (L.S.T.)
	CONE	DITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 . 27	26 - 33	34 - 40	41 - 47	44 - 35	234	*	MEAN WIND SPEED
N	1.2	. 6	1.8	1.8	1.8	2.4	.6	1.8				11.8	18.3
NNE		. 6	1.8	3.0	.6	. 6						6.5	12.3
NE			2.4	3.0	. 6							5.9	12.2
BHE		2.4	3.0	4.7	1.2	. 6	. 6					12.4	12.4
ŧ		1.2	3.6	4.1	2.4	6						11.8	13.0
ESE			1.2									1.2	10.0
3.6		1.2	. 6				.6					2.4	13.0
SSE				1.2				. 6	. 5			2.4	26.5
8				. 6		1.8						2.4	21.
SSW			1.2	. 6	.6							2.4	13.0
\$W	1.8	1.2	1.8	3.6	2.4	1.8	. 6					13.3	13.4
wsw	6	2.4	1.2	1.2	1.2							6.5	9.
w	. 6	. 6	.6	1.1	.6							4.1	10.7
WNW		1.2			. 6							1.8	10.3
NW	1.2	. 6	1.2	1.8		. 6						5.9	10.
HHW	. 6	1.8	3.0	2.4	1.8							9.5	10.5
VARBL													
CALM	$\ge$	$\ge $	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\ge $	$\boxtimes$	$\boxtimes$	$\geq \leq$	$\boxtimes$		
	5.9	13.6	23.1	29.6	14.2	2.4	2.4	2.4	6_			100.0	13.

TOTAL NUMBER OF OSSEVATIONS

169

### SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOD1	MAUL OPTICAL SITE HI NORTH TOMER	78-80 YEARS	VAL.
<b>41211011</b>	ALL WE		0900-1100
		ASS	HOURS (1, 3.7.)
	CON	PITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	36 - 33	34 - 40	41 - 47	40 - 35	<b>284</b>	*	MEAN WIND SPEED
N	. 6		2.4	2.4	. 6	. 6		6				7.1	13.8
NNE		.6	1.2	2.9	2.4	1.2						8.2	15.2
NE		-6	1.2	2.4	1.2	1.2					<u> </u>	6.5	14.4
ENE	6	1.8	2.9	3.5		1.2	.6					10.6	12.1
	. 6	- 6	1.2	4.7	1.2	1.2						9.4	13.2
134				<u> </u>		6_		,		<u> </u>		102	16.5
SE	ļ	<b></b>	1.0								<u> </u>	1.8	9.3
124												1.2_	8.5
		1.8	6	<u> </u>	6					ļ		3.5	11.2
\$5W	- 6		1.2	6	1.2	1.2				<b> </b>		4.7	15.0
\$W	6-	1.2	2.4	2.4	3.5							10.0	12.6
WSW	2.4	1.2		2.9	1.2				ļ	<del> </del>		8.2	8-1
	1.8	1.2	1.2	1.8	1.2			-		<u> </u>	<b></b>	7-1	9.0
WWW		<del></del>		1.8	ļ					<del> </del>		2.2	1004
HW	-1-2		4.7	2.9							<del> </del>	244	9.1
VARM		1.2	3.5	2.9	<del> </del>	<del></del>		<del> </del>		<del> </del>	<del>                                     </del>	8.2	8.6
				<b>K</b> >	$\overline{}$				$\overline{}$			<del> </del>	<del>                                     </del>
CALM													
	10.0	10.6	25.9	31.4	12.9	7.6						100.0	ميد

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USAFETAC  $^{\rm FORM}_{\rm AL}$  648-5 (OL-A.) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUT OPTICAL SITE HI NORTH TOWER	78-80 YEARS	JAN Menyh
	ALL HEA	THER	1200-1400 Hours (L.S.Y.)
	CONS	DITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	30 - 33	34 - 40	41 - 47	49 - \$5	<b>5</b> 84	*	MEAN WIND SPEED
2		. 6	2.2	1.7	46							5.0	10.9
NNE		1.7	141	2.8	-6							6.1	10.3
ME		. 6	2.8	3.9	. 6	. 6						8.4	12.2
ini Ini		. 6	2.2	7.3	1.1	1.7						12.8	13.7
ı		2.2	1.1	1.7	. 6	1.1						6.7	12.3
tse		. 6		1.7	1.1						I	3.4	13.5
25		.6	1.7	. 6								2.8	8.0
126			1.1									1.1	10.0
8			.6		. 6		. 5					1.7	20.7
\$\$W				2.8								2.8	12.8
\$W	1.1	. 6	2.2	1.7	2.8	3.9	.6					12.8	16.9
WSW	. 6	.6	. 6		.6							2.2	6.8
w	2.2	2.2	. 6	2.8								7.8	7.4
WNW	. 6	2.8	1.7	2.2	. 6							7.8	3.9
NW	. 6	2.2	2.8	3.4	1.1	. 6						10.6	10.6
NHW		1.1	3.9	1.7	1.1							7.1	10.2
VARM				1									
CALM	$\times$	$\boxtimes$	$\times$	$\times$	$\boxtimes$	$\times$	$\boxtimes$	$\times$	$\times$	$\ge$	$\boxtimes$		
	5.0	16.2	24.6	34.1	11.2	7-8	1.1					100-0	11.8

TOTAL NUMBER OF OSSERVATIONS

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD1	MAUL COLICAL SITE HI NORTH YOMER	78-8G YEARS	JAY					
		ALL WEATHER GLASS						
	CONF	DIVION						

SPEED (KNTS) DIR,	1.3	4.6	7 - 10	11 - 16	17 . 21	22 . 27	<b>20</b> - 33	34 - 46	41 - 47	4 . 55	şw	•	MEAN WHO SHEED
H	.5		1.6	3.8	. 5							6.6	11.7
HME		. 5	2.7	2.2	. 5							6.3	10.9
HE	. 5	1.1	4.9	3.8	1.1							11.5	10.3
ENE		. 5	2.7	3.8	2.7	1.6						11.5	14.5
			1.6	1.6	.5	. 5						4.4	13.5
250				.5	.5		. 5			L		1.6	20.3
¥	1.1	1.1		1.1		. 5			l			3.8	9.
856		1.6		1.1								2.7	7.
8		1.1	. 5	1.1					<u> </u>			2.7	9.
ssw				2.7	.5	- 5		L		<u> </u>		3.3	16.0
sw		- 5	1.1	_3.3_	1.6	2.7	L		<u> </u>			9.9	16.
WSW	5_		- 5		2.2		I					3.3	14.
w		. 5	. 5	2.2	1.6							6.0	11.
WWW	_ial_	1.6	1.6	1.1	2.2							7.7	10.
NW		2.7	4.4	4.4	1.1	. 5						13.2	10.
NWW		2.2	- 5	1.6	.5							4.9	9.
VARBL													
CALM	$\times$	$>\!\!<$	> <	$\geq \leq$	$\geq \! <$	$>\!\!<$	$\geq \leq$	$\boxtimes$	$\boxtimes$	$\geq \leq$	$\times$		
	4.0	13.7	23.1	35.2	15.9	5.6	- 5					120.0	12.

TOTAL HUMBER OF DESERVATIONS

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

02001	MAULI OPTICAL SITE HI NORTH TOWER	78-AC YEARS	-JAN				
	ALL HEATHER SLAUS						
COMPITION							

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 31	22 - 27	20 - 33	34 - 40	41 - 47	49 - 55	2.84	*	MEAM WIND SPESD
*	. 5	- 6	- 6	3.3	1.1	- 6						6.7	12.7
NHE		-6	1.1	1.7	2.8							6.1	13.9
_ M			2.2	3.9	1.1							7.2	12.5
<b>INE</b>	1.1	. 6	5.0	2.4	2.2			}				10.3	11.8
ŧ		. 6	2.2	3.3	1.1							7.2	12.1
<b>888</b>				. 6								1.1	10.0
\$£	. 5			46	1.1	`					1	2.2	14.0
884	. 6		6									1.1	3.6
8	. 6	1.7	1.7	1.1								5.0	7.7
SSW			. 6	6	1.7					<u> </u>		2.8	15.8
sw		. 6	1.1	3.3	2.8		1.1	- 6		<b>†</b>		9.4	17.6
WSW	. 5	. 6	.6	1.7	.6	1.1	46			·		5.6	15.2
w		1.1	6	1.7	4.6	2.2						6.1	15.7
WWW		2.2	1.1	1.1	2.6	• 6				<del> </del>		5.6	10.9
NW	. 6	.6	2.8	2.2	3.3	•6			<del></del>	<del> </del>	<b></b>	10.3	13.1
NW	46	1.7		2.8					<del> </del>		<del> </del>		
VARM	<b></b>	<del>  ••/</del>	<b></b>		- 6				<del> </del>	<del> </del>	<del> </del>		9.8
CALM	$\boxtimes$	$\boxtimes$	$\times$	$\times$	$\sim$	$\times$	$\times$	$\times$	$\geq$	>			
	5.1	10.6	20.6	37.2	19.4	5.0	1.7					100.0	12.9

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOOD 1	MAUI OPTICAL SITE HI NORTH TOWER	78-80 VEARS	HYMOM				
	ALL MEATHER						
	CONT	DITION					

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	**	*	MEAN WIND SPEED
N		1.1	1.1	1.1	1.7							5.0	11.6
NNE			1.1	3.9	6							6.1	11.6
NE		. 6	2.8	7.8	1.7	. 6						13.3	12.6
ENE		. 6	6.1	5.6	. 6	1.1				<u> </u>		13.9	11.5
			1.7	3.3	- 6							5.6	11.7
814						1.7			<u> </u>			1.7	24.0
¥		1.1		4	-6				<u></u>			2.8	9.8
184			1.1	-6								2.2	14.0
		6	2.2						<u> </u>		<u> </u>	3.3	3.3
\$\$W				1.1		- 6						2.8	14.6
3w	<u> </u>		1.1	3.9	2.4	2.2	. 6					10.6	17.7
WW	. 6	1.1	1.1	2.2	1.7							6.7	11.0
w		1.1	1.7	1.7	1.7							6.1	11.6
WWW	1.7	1.1			6	1.1						5.6	10.9
NW		2.2	2.2		1.1	1.1			<u> </u>			1.2	12.0
HHW		2.2	1.1	2.8	L	1.1						7.2	12.2
VAROL	L							L					
CALM	$\geq \leq$	$\geq \leq$	><	$\geq \!$	$\geq \leq$	$\geq \!$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	3.9	11.7	23.9	36.1	13.9	10.0						120.2	12.6

TOTAL NUMBER OF OSSERVATIONS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD1	MAILT OPTICAL STTE HT NORTH TOMER	78-80 VEANS	JAN					
		ATHER	HOURS (L.S.Y.)					
CONSITION								

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 . 27	26 - 33	34 - 46	41 - 47	40 - 55	<b>2</b> 86	*	MEAN WING SPESS
×	. 4	9	1.4	2.3	. 9	. 6	. 2					7.0	14.
NHE	1_	1.0	1.4	3.0	. 9	6						7.1	12.
HE		. 6	2.1	4.3	1.1	-3						9.1	12.
SHE	. 3	1.0	3.6	6.0	1.6	1.1	• 2		[			13.7	12.
	.1	4.8	1.8	2.5	1.0	. 5						6.6	12.
ese	• 1	. 1	4.5	4.5	.2	. 3	. 1					1.5	13.
SE		- 6	9	- 4	. 2	-1	.1					2.5	10.
\$\$£	.1	. 5	. 4	. 6				.1	.1			1.9	12.
8	. 1	. 8	. 9	. 6	3	.5						3.1	12.
\$\$W	. 4	. 5	. 5	1.1	. 6	. 4						3.4	12.
\$W	. 5	. 9	1.3	2.8	2.6	1.8	5	.1				10.6	15.
wsw	. 7	1.1	.7	1.6	1.1	4						5.7	11.
w	.7	1.1	. 6	2.1	.7	. 4						5.7	11.
WHW		1.4	. 9	1.2	- 6	. 3						5.1	10.
NW		1.6	2.7	2.3	1.1		1					8.9	11.
MW	3	1.7	2.1	2.4			. 1					7.7	10.
VARM													
CALM	$\times$	$\times\!$	$\times$	><	$\times$	$>\!\!<$	$\times$	$\times$	><	$\boxtimes$	>><		
	-5.3	14.5	22.5	33.0	13.6	7.9						100.0	12.

TOTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SOBBL.	MAUL OPIICAL SITE HI NORTH TOMER	78-80 YEARS	FEB MONTH
	ALL WE	ATHER ASS	0000-0200 Hours (L.s.T.)

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	30 - 33	34 - 40	41 - 47	46 - 55	254	*	MEAN WIND SPEED
М	. 5	. 5	1.5	1.0								3.4	8.1
HME		1.5		1.5		. 5						3.4	11.4
HE		1.0	1.0	1.0	1.0	. 5						4.4	12.0
ENE		. 5	4.4	2.9	1.0							8.9	11.6
ı		. 5	2.9	2.9	5							6.8	10.3
188	. 5		2.9									3.4	7.7
SE		1.5	2.9	2.0	. 5	2.4	. 5					9.8	13.7
<b>556</b>			. 5	1.5	2.0	.5	5	1.0				5.9	20.8
\$	1.0	. 5			1.0							2.4	10.0
ssw	5	1.0	. 5	1.0								2.9	8.2
\$W		1.5	2.0	3.9	1.5	2.0	. 5					10.7	14.9
WSW	. 5	. 5	1.0	2.4	2.4	. 5	1.5	.5				9.3	17.5
w		2.0	1.0	1.0								3.9	8.1
WHW		2.0	2.9	3.9	. 5		.5					9.8	11.2
NW		. 5	2.0	3.4	1.5	2.0	. 5	. 5				10.2	16.5
HHW		. 5	2.0	2.0	.5							4.9	11.1
VARM													
CALM	$\times$	> <	> <	$\bowtie$	$\boxtimes$	$\times$	$\times$	$\times$	$\times$	> <	$\times$		
	2.9	13.7	27.3	29.8	12.2	8.3	3.9	2.0				100.0	13.1

TOTAL NUMBER OF DESERVATIONS 205

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

O TOTAL	MAUL OPTICAL SITE HI NORTH TOHER	78-80 YEARS	FEB MONTH				
	ALL NEATHER						
CONDITION							

SPEED (KNTS) DIR.	1 · 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	44 - 55	2#	*	MEAN WIND SPEED
N		. 5	. 5	. 5								1.5	8.3
NNE		5	1.0	1.0	. 5							2.9	10.8
NE		5	2.4	2.0	1.0							5.9	11.4
ENE		1.0	. 5	1.0	3.4	• 5			L			6.3	14.5
ł		. 5	2.4	2.0								4.9	9.7
ESE		2.0	2.4	1,5								5.9	9.0
SE	. 5	2.9	1.0	1.0		2.0	1.0					8.3	15.8
326	. 5	. 5	1.5	1.5	1.0	1.0	. 5	1.0				7.3	17.5
8		1.3	2.0	1.5	1.0							5.4	11.2
ssw		1.0		. 5	1.0	. 5	. 5					3.4	17.3
sw	. 5	. 5	2.0	3.9	4.9	2.4						14.1	15.8
WSW		. 5	. 5	. 5	1.5	1.5						4.4	17.3
w	. 5	1.0	2.4	. 5	. 5	5_						5.4	9.6
WNW	. 5	1.5	1.3	2.4	2.3			. 5				4.3	12.9
HW	1.0	. 5	2.9	2.0	2.9	1.0	1.0					11.2	14.7
HWW	בינ	A 5	1.0	2.0	. 5							4.9	10.3
VARM													
CALM	$\boxtimes$	$\times$	$\geq \leq$	$\geq \leq$	> <	$\geq \leq$	> <	$\geq <$	$\geq \leq$	$\boxtimes$	$\boxtimes$		
	4.4	14.6	23.9	23.8	20.0	9.3	2.9	1.5					13.4

TOTAL NUMBER OF OSSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM AM OBSOLETE

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0.0001	MAUL OPTICAL SITE HI NORTH TOWER	78-80 YEARS	FES MONTH				
	ALL VE	ATHER	<u> 1609-3800</u> ноине (с.е.т.)				
COMBITION							

SPEED (KNTS) DIR.	1.3	4 · 4	7 - 10	11 - 16	17 - 31	22 · 27	26 - 33	34 - 40	41 - 47	40 - 55	<b>5</b> 86	*	MEAN WIND SPEED
N			2.4	2.4	. 5							5.2	12.5
NNE	. 5		1.4	9		. 5						3.3	10.9
NE		• 5	.5		. 5							1.4	11.7
3ME		1.9	3.8	3.3	1.4			-				10.4	10.7
e			1.9	4.3	. 9	. 5						7.6	13.9
ese			. 9		. 5							1.4	11.7
SE		. 9	2.8	. 5	. 9		. 5					5.7	12.4
85E			.5	1.9	1.9	. 9		. 5				5.7	18.5
\$		. 9	. 9	1.9	9	. 9						5.2	14.3
\$\$W			. 9		1.4	1.4						3.8	17.9
\$W		5	2.8	4.7	4.7	1.4	2.4	. 5				17.1	17.8
WSW			1.9	2.4	. 9							5.2	12.1
*		1.9	1.9									3.8	6.6
WNW	. 5	1.4	. 9	3.3	. 9							7.1	11.3
NW	1.4	9	1.4	3.8	3.8	1.9	. 5					13.7	14.9
MMW			. 5	1.9	. 9							3.3	14.3
VARBL											I	I	
CALM	> <		$\supset <$	$\supset <$	$\supset <$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\triangleright\!$	> <	$\triangleright\!$		
	2.4	9.0	25.6	30.8	20.8	7.6	3.3					100.0	13.9

TOTAL NUMBER OF DESERVATIONS

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### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00001	MAUL OPTICAL SITE HI NORTH TONER		FEB MONTH					
	ALL MEATHES GLASS							
	rew.	DI SIAN						

SPEED KNTS) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	<b>26</b> · 33	34 - 40	41 - 47	44 - 55	≥34	*	MEAL WINE SPEE
N		1.0	1.9	2.4								5.3	9.
HNE		1.0	1.4	. 5								2.9	8.
NE		1.0	2.4	1.0							Ĺ	4.3	8.
ENE		1.0	3.3	4.8	1.0				<u> </u>			10.0	11.
		. 5	2.4	2.4	1.4	1.0						7.7	13.
686			1.9	1.9	1.0							4.3	11.
SE			1.9	1.4	.5		• 5					4.3	13.
554			.5	2.9	1.9	1.0	. 5					6.7	17.
			• 5	- 5	1.4	1.0		1.0				4.3	25.
ssw		1.9	.5.	1.4	1.0	1.4	.5					6.7	15.
sw		5	3.8	2.9	3.8	1.9	1.4	. 5		1		14.8	16.
wsw	. 5	- 5	3.0	2.4	1.4							6.2	12.
	1 - 1		1.0	45	1.5				<u> </u>			5.3	7.
<u></u>		2.4	1.8	{ <del></del> -	- 5	1.4		·			1	3.8	15
www		- 5		<del></del>	1.9	1.4	.5	<del>}</del>	<del> </del>	<b>†</b>	1	11.5	13.
NW	104		3.3	2.5				<del> </del>	<del></del>	<del>                                     </del>		1.9	10
NHW I		5	- 5		5			<del> </del>	<del> </del>	<del> </del>	1		1
VARBL		_	<del></del>	<del></del>	<b>K</b> >	<b>K</b> >				<del>                                      </del>		<del> </del>	<del>                                     </del>
CALM	> <	> <	$\sim$		$\sim$	$\sim$							
			28.2	27.3	16.7	9.1	3.3	1.4			T	100.0	13.

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND STEED (FROM HOURLY OBSERVATIONS)

00001	MAUL OPTICAL SITE HI NORTH TOWER	78-80	FEB
STATION	STATION NAME	YEARS	MONTH
	ALL WEA	ATHER	1200-1400
	g.	A69	HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 . 21	22 - 27	20 - 33	24 - 40	41 - 47	44 - 55	2#		MEAH WIND SPESD
7		ده	9	1.4	5							3.3	10.7
HHE	. 5	1.9	2.3									4.7	6, 3
ME	. 5	5_	3.7	1.4								6.1	3.7
EME	. 5	• 5	2.3	1.9	. 9							6.1	10.5
ŧ			1.9	1.9	_ 9_					Ī		4.7	12.
ESE		. 5	. 9	1.4	. 9	. 3						4.2	13.3
SE		• 5	. 9	. 9	. 5	. 5						3.3	13.4
358			5	1.4	1.4	1.4	. 5	. 5				5.6	20.
8	. 5	. 5	. 9	1.4	. 5	. 5	. 5					4.7	13.1
SSW		. 9	. 5	1.0	. 9							4.2	12.
sw	. 9	1.4	2.3	1.9	2.8	. 5	2.3	. 9				13.1	16.
W\$W		. 9	2.8	. 9	1.4	. 5	1.4					7.9	14.
w	5	1.9	1.9	2.3	. 5	. 5						7.5	9.1
WWW	1.4	. 9	. 9	2.3								5.4	9.0
NW	. 8	3.3	2.3	1.9	4.9	2.3	1.9	. 5				14.0	14.
NNW	.5	1.4	1.9	. 5	.5	. 5		<u> </u>	<u> </u>	Ĭ		5.1	10.
VARM			1	T				1		1	İ	1	
CALM	$\times$	$\geq \leq$	$\times$	$\times$	$\boxtimes$	$\times$	$\times$	$\times$	$\boxtimes$	$\times$	$\times$		
	6.1	15.4	27.1	23.4	12.6	7.0	-6.5	1.9				100.0	12.

TOTAL NUMBER OF DESERVATIONS

214

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OBDD1 STATION	MAILI OPTICAL SITE HI NORTH TOWER	78-80 VEARS	FEB MONTH				
	ALL WEATHER						
	CON	DITION					

SPEED (KNTS) DIR.	1 3	4.6	7 - 18	11 - 16	17 - 21	22 - 27	20 - 33	34 - 46	41 - 47	40 - 55	ž.M	*	MEAN WIND SPESO
N	- 5	5	1.4	2.5								5.2	10.5
NNE		1.4	. 9	. 5							L	2.8	8.7
NE	. 2	. 9	2.8	1.4								6.1	8.6
ENE		1.9	3.8	3.3					i			8.9	9.5
ŧ		. 5	2.3	. 9	* 3	. 5						4.7	11.
ese		. 9	9	. 9								2.8	9.
SE		. 5	. 9	5		. 5		. 5				2.8	15.
<b>356</b>	.5			1.9	1.9	1.4	. 5	. 5				5.6	19.
8			. 9	9	1.4							3.3	14.
SSW	. 5		. 9	1.4		. 5			L			3.3	12.
SW	. 9	. 9	2.3	2.8	3.3	2.3						12.7	14.
WSW	5_	9	1.9	1.9	- 9	5_		. 5				7.0	13.
w		1.9	2.8	3.3	- 9	- 5	.5				L	10.3	11.
WNW	5	1.9	4.2	2.8	1.9	. 5						11.7	10.
NW	5_	1.4	1.4	2.3	. 9	1.9						9.4	14.
NNW			. 5	9		. 9						2.3	16.
VARBL													
CALM	$>\!\!<$	$>\!\!<$	$\geq \leq$	$>\!\!<$	$\geq \leq$	$>\!\!\!<$	> <	$\geq \leq$	><	$\geq \leq$	$\geq \leq$		
	5.2	13.6	28.2	28.6	11.7	9.4	1.9	1.4				100.0	!

TOTAL NUMBER OF CUSSERVATIONS

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OOOO1	MAUL OPTICAL SITE HI NORTH TOMER	78-80 YEARS	•	FEB				
	ALL WEATHER							
CONDITION								

SPEED (KNTS) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	26 - 23	34 - 40	41 - 47	40 - 53	244	*	MEAN WIND SPEED
N		ذ	1.0	1.4	1.0							3.8	12.6
NNE		1.9	1.0	1.0	. 5	. 5						4.8	10.4
NE_	. 5	. 5	1.0	3.3								5.2	10.0
INE			5.7	2.9								8.6	9.4
•		1.0	1.5	1.0								3.8	9.
tst			1.4	1.9	1.0							4.3	13.3
SE	.5		1.0	2.4	.5	. 5					·	4.8	12.
854		1.4	1.0	1.9	1.0	1.4		i	1			6.7	14.
8	1.0	. 5	1.4	2.4	1.0				<u> </u>			6.2	11.0
SSW		. 5		. 5	. 5	4.5						1.9	14.
SW	5	1.4	1.9	1.9	1.9	2.9	.5					11.0	15.
W\$W	1.5	1.0	1.0	3.3	1.0	. 5			1			7.6	11.
w		. 5	1.9	1.4	2.4	1.3	. 5					7.6	15.
WWW			1.4	7.4	- 5	1.0						5.2	13.
NW		. 5	2.4	5.7	1.9	2.4	1.0					13.8	15.
HWW	1.0	1.0	1.0	1.4	5						<del></del>	4.8	9.
VARBL						<del>                                     </del>						1	
CALM	$\times$	$\times$	$\supset \subset$	$\times$	> <	X	$\times$	$\times$	$\supset$	$\times$	>>		
	4.3	10.5	24.8	34.8	13.3	10.5	1.9					100.0	12.

MONTAVERSON OF CREEKY ATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI MORTH TOMER	78-80 YEARS	FEB MONTH					
	ALL WEATHER CLASS							

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	<b>38 · 33</b>	34 - 40	41 - 47	46 - \$5	<b>2</b> #	*	MEAN WIND SPEED
N		1.0	5	1.0								2.4	9.4
NNE		F,	1.9	1.4								3.8	9.4
NE		5	1.0	1.9	1.4							4.8	14.
ENE		1.9	6.2	3.4	. 5							12.0	9.0
	1.0	. 5	2.4	2.9		. 5						7.2	10.
ese		1.0	1.9		.5	. 5						3.8	11.
SE		1.0	. 5	. 5	1.9	1.0						4.8	16.
\$54		1.0	1.9		. 5			1.0				4.3	14.
\$	1.0		. 5	2.9	1.4	5						6.2	13.
SSW		[	1.0	1.0	. 5		. 5					2.9	15.
5W		1.0	1.4	3.4	3.4	1.0						10.1	14.
WSW		1.0	1.0	2.4	1.0	. 5						5.8	13.
w		1.3	1.4		1.0	1.0	. 5					4.8	14.
WHW		. 5	2.4	2.9	1.2	1.4						8.2	13.
NW			4.3	2.9	1.0	1.9	1.9		1	,		12.3	16.
HHW		1.4	. 5	4.3	5						I	6.7	12.
VARBL													
CALM	><	$\times$	> <	$\geq <$	> <	$\times$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$		
	1.9	12.0	28.8	30.3	14.4	8.2	2.9	1.0				100.0	T

TOTAL NUMBER OF OSSERVATIONS 2.0s

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### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOOD1	MAUL OPTICAL SITE HI NORTH TOMER	78-8F VEARS	FEB MONTH				
	ALL WEATHER						
	CONI	DITION					

SPEED (KNTS) DIR.	1.3	4+6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	<b>5</b> #	*	MEAN WHID SPEED
М	.1	. 5	1.3	1.6	• 2							3.8	10.6
NHE		1.1	1.3	. 8	1	. 2						3.6	9,4
NE	. 2	. 7	1.9	1.5	. 5	.1						4.8	10.5
ENE	1	1.1	3.8	2.9	1.0	.1						8.9	10.7
ŧ _		4	2.3	2.3	. 5							5.9	11.7
ESE		. 5	1.7	. , ,	. 5	1						3.8	10.9
se		. 9	1.5	1.1	. 6		. 3	ı				5.4	13.8
358	1	. 4	. 8	1.6	1.4	1.0	3	. 5				6.1	17.9
	. 4	3	.,9	1.4	1.1	. 4	-1	-1				4.7	13.8
SSW	1	. 7	. 5	1.0	. 7	. 5	. 2					3.6	14.2
\$W	3	1.0	2.3	3.1	3.3	1.8	. 9	. 2				13.0	16.0
WSW	. 3	. 7	1.4	2.0	1.3	5		.1				6.7	14.1
w		1.6	1.8	1.1	. 7		.2					6.1	11.0
WNW		lal	2.0	2.5	. 9	. 5	1					7.5	12.0
NW	. 7	1.D	2.5	3.0	1.9	1.9	1.0	1				12.3	15.2
MMW	. 3	. 7	1.0	1.7	5	• 2						4.2	11.5
VARBL													
CALM	$\times$	$>\!\!<$	> <	$>\!\!<$	$\times$	$>\!\!<$	$\times$	$\times$	$\geq \leq$	$\times$	$\boxtimes$		
	3.8	12.5	26.7	28.5	15.2	8.7	3.3	1.3				100.0	13.2

TOTAL NUMBER OF DESERVATIONS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERYATIONS)

ODDO1	MAUL OPTICAL SITE HI NORTH TOMER	78-79 YEARS	MAR MONTH
		ATHER	0000-0200 HOURS (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	≥#	*	MEAN WIND SPESO
N	1.1	. 6	.6	2.3	.6							5.1	10.7
NNE	. 6		. 6	. 6	. 6							2.3	9.5
NE	6	3.4	3.4	4.0		1.1						12.5	10.4
BME	. 6	2.3	9.7	5.1	1.1	1.7			<del></del>	<del></del>		20.5	11.9
	. 6	. 6	2.3	4.0	4.5	1.7						13.6	14.3
EM		-6	. 6	2.8	1.7	2.3			<u> </u>			8.0	17.2
SE	. 6	.6	. 6	1.1								2.8	8.8
\$58		1.1	.6			1						1.7	6.3
\$	. 6	1.1				<u> </u>						2.3	5.5
SSW	1.1	. 6	.6	<u> </u>	. 6	1.1	1.1					5.1	16.0
sw		. 6		4.6			h	. 6	- 6	·		3.4	25 D
WSW		1.1				1.1						2.8	17.8
w	- 65		1,1	1.1			- 46		<b></b>			3.4	12.7
WHW		.6	.6	.6					· · · · · · · · · · · · · · · · · · ·			2.3	6.5
NW	. 6		1.1	1.1	2.3						· · · · · · · · · · · · · · · · · · ·	5.1	13.9
NHW		1.7	1.7	4.5	1.1							9.1	10.9
VARM		<b></b>		7.03				<del></del>				7.1	AMAZ.
CALM	$\times$	$\times$	$\times$	$\times$	$\geq$	$\times$	$\times$	$\times$	>	>>	> <		
	7.4	14.8	23.9	27.1	12.5	9.7	2.8		۵.			100.0	12.6

OTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDDD1	MANI OPTICAL SITE HI NORTH TOWER	78-79 VEARS	MAR
	ALL NE	ATHER	G300-0500 HOURE (L.S.Y.)
	CON	IDITION	

SPEED (KNTS) DIR.	1 - 3	4+6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	44 - \$5	≥#	*	MEAN WING SPESS
N	1.2	. 6	1.7	. 6	.6							4.6	6.
3444		. 6	2.9		. 6							4.0	10.
NE		. 6	2.3	3.5		. 6						6.9	11.
ENE		3.5	6.4	5.2	3.5	1.7						20.2	11.
B	. 6	. 6	2.3	4.6	2.3	1.7						12.1	13.
ESE	. 6	2.9	1.7	2.3	1.7	2.9	. 6					12.7	15.
SE		. 6	3.5	. 6		. 6						5.2	9.
358	6		. 6									1.2	4.
8	. 6											. 6	2.
\$5W		. 6	1.2			1.2		1.7				4.6	22.
sw			.6			. 6	1.2					2.3	23.
wsw	6				-6	1.7						2.9	19.
w	1.7	. 6	.6		-6	. 6	. 6					4.6	11.
WNW	. 6	1.2	. 6	. 6								2.9	7.
NW	1.2	1.2	6	. 6	2.9	. 6						6.9	12.
NHW		.6	2.9	4.0	.6							8.1	11.
VARM													
CALM	$\times$	> <	><	><	> <	$>\!\!<$	><	$>\!\!<$	$\supset <$	><	$\triangleright \!$		
	7.5	13.3	27.7	22.0	13.3	12.1	2.3	1.7				100.0	12

TOTAL HUMBER OF OSSERVATIONS

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MALLI OPTICAL SITE HI NORTH TOWER	78-79 VEARS	MAR
	ALL ME	ATHER	0600-0800 Hours (L.S.T.)
	CON	DIVION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 14	17 - 21	22 - 27	20 33	34 - 40	41 - 47	44 - 35	5#		MEAN WHID SPEED
N	6	1.2	2.9	4.6								8.7	10.1
HNE		1.2	2.3	2.3								5.8	10.5
NE	1.2		- 6	1.2	2.3	1.2						6.4	15.0
ENE	1.2	1.7	2.9	5.2	1.7	1.7						14.5	12.4
ŧ		40.1	6.9	3.5	1.7	. 6	. 6				1	17.3	10.8
ese .	. 6	2.3	5.2	2.9	2.9	1.7						15.6	12.1
SE	. 6	. 6	2.3	. 6	.6						<u> </u>	4.6	9.1
322	. 6		1.2									1.7	5.7
8			- 6									6	7.0
\$5W						_ 6	1.2	.6				2.3	30.5
SW	- 6	6					2.3					3.5	20.7
WSW		1.2				1.2	-6					2.9	18.0
W		1.2			6	_ 65		- 6				2.9	18.6
WWW	1.2	6			1.7							3.5	10.7
NW	. 6	_1.2	.6	2.3	2.3							6.9	12.3
MHW			.6	2.3								2.9	11.6
VARM													
CALM	> <	$\times$	$\geq$	><	$\boxtimes$	$\times$	> <	$\times$	$\times$	$\boxtimes$			
	. 6 . 9	15.6	26.0	24.3	13.9	7.5	4.6	1.2				100.0	12.6

OTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

TOTAL NUMBER OF CASES /ATIONS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

03001	MAUI	OPTICAL	SITE	HI NO	RIH TO	MER	78-	7.9	V-	EARS				AR IONTH
		_			<u></u>	ALL ME	ATHER							-1100 is (L.S.Y.)
		-				CON	DITION							
	SPEED (KNTS) DiR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	n·v	20 - 33	34 - 40	41 • 47	40 - 55	<b>5</b> 56	*	MEAN WIND SPEED
[	N	1.7	1.7	.6	2.8	2.3	- 6						9.7	11.5
[	NNE		1.1	1.7	.6	1.1							5.1	9.3
E E	HE	. 6	2.8	2.3	1.7	2.8	.6						10.8	10.9
	3143	. 6	1.1	3.4	2.1	1.1	1.7						10.8	12.7
			1.7	1.7	6.8	1.1	- 6						11.9	13.1
Ĺ	tst_		1.7	. 6	4.5	1.7	2.3						11.4	15.5
ļ		- 6	6_	1.7	-65	1.1	- 6						5.1	12.1
ļ	154	- 6	_lal_	1.7									3.4	5.3
},		6	ļ	6_	<u> </u>		<u> </u>	-6-					2.3	14.5
ļ	\$5W					ļ				6_			2.8	29.2
1	3W	6_											2.8	24.8
,	WSW	<b>]</b>	<b> </b>			1.1	ļ				ļ		1.7	22.0
1	w		<b></b>				<b></b>			ļ			1.2	6.3
ļ.	WWW	_ كمك_	101		107								6.3	6.5
}	NW _	1.1	6	2.3	2.3		1.2						8.5	12.1
ļ	NWW	2.3	1.7		<b> </b>	- 6	<b></b>			<u> </u>			5.1	5.2
ļ	VARM			<b>_</b>	<b>_</b>	<b>_</b>	<b>_</b>			k				
	CALM	$\geq \leq$	$\sim$	$>\!\!<$	$\geq \leq$	><	$\geq \leq$							

### SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD1	MALIT OPTICAL SITE HT NORTH TOMER	78-79 VEARS	MAR
	AL! ME	THER	1238-1438 HOURS (U.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR,	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	36 · 33	34 - 40	41 - 47	40 - 85	5#		MEAN WIND SPESD
N		- 6	- 6	1.7	2.2	-6						5.6	14.3
NME		3.4	3.9	1.1								8.4	7.9
NE			6.2	2.2	1.1						L	10.1	11.0
141		1.7	1.1	2.8	3.4	1.7						10.7	14.7
	-6	2.2	2.8	3.9	2.8	1.1						13.5	12.9
135	6_	1.1	107	2.8	- 46	2.8						9.4	14.2
u			1.1			- 6						2.2	11.0
224	Lal	1.2	_1.1			<u> </u>		<u></u>				3.9	5.1
		ļ	lal.		<b></b>							2.2	11.0
SSW		6			<u> </u>			6_		<del></del>		2.2	20.5
\$W	<b></b>	- 66	6			ļ	1.1	Lal.	- 6		<b> </b>	5.1	26.1
WSW	5_		6_	ļ	<b> </b>	ļ					ļ	1.7	5.7
w	1.1	2.2	المنا	ļ		<u> </u>						5.1	6.7
WWW	107	6_	1.1.	1-1-1		<b></b>					ļ	5.1	-8.6
NW		2.8	1.1	2.2		1.7						804	12.3
NHW		1.1	1.1	2.8		ļ						6.2	10.3
VARM	Ļ,		Ļ.,		Ļ,						Ļ,	<b></b>	
CALM	$\geq \leq$												
	7.3	1,9.1	25.3	21.0	11.8	10.1	1.7	2.2				100.0	12.3

OTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1 STATION	MAUL OPTICAL SITE HI NORTH YOMER	78-80 YEARS	MAR
		ATHER	1530-1700 HOURS (L.S.T.)
	CON	DIYION	

SPEED (KNTS) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	30 - 33	34 - 40	41 - 47	40 - 55	234	*	MEAN WIND SPESO
N		1.1	2.2	1.1	- 6							5.0	9.2
NNE		1.7	. 6	2.2	.6							5.0	10.0
HE	. 6	1.1	7.3	1.7	1.1	. 6						12.3	10.2
ENE	.6	. 6	2.8	2.2	2.2	1.1						9.5	13.0
1	. 6		1.7	3.4	5.0	1.1						11.7	15.5
181			6	1.7		2.8						5.0	19.6
SE			1.7		. 6							2.2	11.5
\$34		1.7	1.1									2.8	6.6
\$	1	. 6										.6	4.0
\$5W		1.1		. 6		1.7				.6		3.9	22.0
şw	1.1	3.9	1.1	1.1			6	1.7	. 6			10.1	15.1
WSW	. 6	1.1						.6				2.2	12.0
W	1.1	1.1										2.2	3.3
WWW		2.2	1.1	1.1		. 6		. 6				5.6	12.1
NW	1.1	2.8	á	3.4	1.1	1.1						10.1	11.2
NWW	.6	2.2	3.4	2.2	2.2	. 6						11.2	10.9
VARBL													
CALM	><	$\supset <$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\times$	$\times$	$\boxtimes$	$\geq$	$\ge$	><	• 6	
	6.1	21.2	24.0	20.7	13.4	9.5	. 6	2.1	- 6	. 5		100.0	12.5

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

18 2 T

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOWER	78-79 YEARS	MAP
		ATHER	1830+2000 HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	72 - 27	26 - 33	34 - 40	41 - 47	49 - 35	284	*	MEAN WIND SPERO
N	- 6	1.7	4.0	4.5	- 6	. 6						11.9	11.0
NNE		1	2.3	1.1								4.5	9.3
NE	. 6		4.5	2.8		1.7						9.7	11.9
ENE		1.7	4.5	4.5	2.3	1.1						14.2	12.0
ŧ		1.1	2.3	4.0.	2.3	3.4						13.1	15.7
ese		.6		1.1	1.7	.6				1		4.0	16.7
3.6	1.1	1.7		1.7		.6						5.1	9.2
SSE	1.1		1.1	16					1			2.8	6.8
\$	.6	.6	- 6							<del> </del>		1.7	5.3
SSW	1.7	1.1	1	1		2.3	. 6					5.7	14.7
sw	1.7	.6	1.7	.6			1.1	2.3	<u> </u>			8.3	18.4
WSW							. 6					.6	26.0
W	1.7	1.1	<u> </u>			<u> </u>		<u> </u>				2.8	3.8
WNW	1.1			1.1		.6						3.4	13.
NW	1.7	1	3.4	-	2.3			·				8.5	10.3
NNW		6	3.6	-6	- 6	1.7		<del></del>				4.0	17.1
VARBL			<b></b>			1.4	<del> </del>	<b></b>	<del> </del>	<b> </b>		<del></del>	1.4.4
CALM	$\boxtimes$	$\times$	$\geq \leq$	$\boxtimes$	>	$\times$	$\sim$	>	> <	$\sim$	>>		
	11.9	13.1	25.0	22.7	9.7	12.5	2.8	2.3				100.0	12.7

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OCOOL STATION	MAUI OPTICAL SITE HI NORTH TOWER	78-79 YEARS	MAR MONTH
	ALL WE	ATHER ASS	2100-2300 Hours (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	30 - 33	34 - 40	41 - 47	40 - 85	2#	*	MEAN WIND SPEED
N		. 6		2.3	1.1	1.1						5.1	16.1
NNE		1.1	1.7	2.8								5.6	10.1
HE		1.1	2.8	2.8	.6	1.7						9.0	12.8
tht .		2.3	6.2	6.2	2.8	. 6						18.1	11.9
ŧ		1.1	2.8	5.1	2.8	. 6	1.1					13.6	14.6
ESE		. 6	1.7	. 6	1.1	2.3	. 6					6.8	17.3
SE		1.1	1.1	1.7	1.1							5.1	11.1
358	. 6	1.1										1.7	4.0
S	. 6	- 6										1.1	4.0
ssw		2.3	. 6			1.1	1.1	- 6				5.6	16.9
SW			1.1	6		1.1	. 6	1.1				4.5	21.8
WSW		_ 6					. 6		.6			1.7	24.7
w		1.1	.6									2.3	5.0
WNW	1.7	_ 6	. 6									2.1	4.4
NW	1.7	6	1.1		3.4							7.3	11.9
NWW	1.1	3.4	1.7	1.1	2.3							9.6	9.9
VARM													
CALM	$\times$	$\boxtimes$	$\boxtimes$	> <	$\boxtimes$	$\bowtie$	$>\!\!<$	$\geq \leq$	$\boxtimes$	$\geq \leq$	$\geq \leq$		
	6.2	18.1	22.0	23.7	15.3	8.5	<b>8</b> • D	1.7	- 6			100.0	12.9

TOTAL NUMBER OF DESERVATIONS

2

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODOO1	MAUT OPTICAL SITE HI NORTH TOWER		MAR MONTH
		ATHER	HOURS (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	<b>26 · 33</b>	24 - 46	41 - 47	4 - 55	**	*	MEAN WIND SPESD
×	6	1.0	1.6	2.4	1.0	. 4						7.3	11.4
NNE	.1.	1.3	2.0	1.3	. 4			L				5.1	9.4
NE	. 4	1.1	3.7	2,5	1.0	1.0						9.7	11.5
ENE	4	1.8	4.6	4.3	2.3	1.4					1	14.8	12.3
t	. 3	1.4	2.8	4.4	2.8	1.3	. 2					13.4	13.7
252	• 2	1.2	1.5	2.3	1.4	2.3	•1		<u> </u>			9.1	15.2
SE	. 4	-6	1.5	. 8	.4	.3			<u> </u>			4.0	10.4
332	. 5	. 9	. 0	-1								2.4	5.6
\$	. 4	. 4			.1	4.1	1	ļ				1.4	8.1
SSW	. 4	. 8	. 4	.2	. 1	1.1	.5	.6	. 1	.1		4.0	20.0
sw	5	. 8	. 6				1.0	1.0	.2			5.0	20.5
wsw	2	. 6	.1		4.2	.5	. 4	. 1	.1			2.1	17.6
*	1.0	. 9	. 4	• 2	. 2	.1	.1	.1				3.1	8.5
WWW	1.3	. 9	- 6	. 8	.2	.1	11	. 1				4.3	8.9
HW	1.1	1.3	1.3	1.6	1.8	.6			<del> </del>			7.7	11.9
NNW	. 6	1.4	1.6	2.2	1.0	. 3		<b></b>	<del>                                     </del>			7.3	10.8
VARBL		1		-				<b> </b>					AMA
CALM	$>\!\!<$	$\overline{}$	> <	><	> <	>>	> <	> <	> <	> <	> <	.1	
	8.5	16.3	24.0	23.5	12.0	9.9	2.6					120.0	12.6

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD1	MAUI OPTICAL SITE HI NORTH TOMER	78-79 YEARS	APR MONTH
	ALL WE	ATHER	0000-0200 HOURS (L.S.T.)
	COMI	DITION	

SPEED (KNTS) DIR.	1 . 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	20 - 33	34 - 40	41 · 47	4 - 15	286	*	MEAN WIND SPEED
N													
NNE		7	. 7									1.5	7.5
ME			3.7	2.2								5.9	9.9
ONE		1.5	5.9	6.7	3.7	.7	. 7					19.3	13.2
•			2.2	5.2	3.7	• 7				<u> </u>		11.9	14.7
ESE		1.5	1.5	.7	.7							4.4	9.7
SE			.7	2.2								3.0	11.5
358			.7	3.0	. 7							4.4	14.0
5			. 7		2.2	. 7	1.5	. 7				5.9	23.3
\$5W		. 7		3.7	3.7	1.5	. 7					10.4	17.4
sw		2.2	1.5	5.2	3.0							11.9	13.1
WSW	1.5	7	1.5		. 7	1.5						5.9	12.4
w	1.5		. 7	2.2		47						5.2	11.6
WWW					.7							.7	20.0
NW	2.2	1.5	1.5	7	. 7							6.7	7.4
NWW		1.5	1.5									3.0	6.8
VARM													
CALM	$\times$	$\boxtimes$	$\times$	$\times$	$\times$	$\times$	$\times$	$\geq$	$\geq \leq$	$\boxtimes$	$\boxtimes$		
	5.2	10.4	23.n	31.9	20-0	5.9	3.0	. 7			1	100.0	13.3

TOTAL NUMBER OF OSSERVATIONS

1 2 GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC PERCENTAGE FREQUENCY OF WIND AIR WEATHER SERVICE/MAC DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) ODDO1 MAUI OPTICAL SITE HI NORTH TOMER 78-79 0300-0500 HOURS (N.S.T.) SPEED (KNTS) DIR. 1 . 3 11 - 16 17 - 21 22 - 27 26 - 33 41 - 47 236 N ENE 5.7 20.7 ese SE 356

TOTAL NUMBER OF OBSERVATIONS

3.7

8.2

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

55W

WWW

VARBL

C

C

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00001	MAUL OPTICAL SITE HI NORTH TOWER	78-79	APR
STATION	STATION NAME	YEARS	MONTH
	ALL NEA	THER	0600-0800
	ÇI.	A88	HOURS (L.S.T.)
	CONI	ITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 35	211	*	MEAN WIND SPESD
N	. 7	. 7	1.5	1.5								4.5	8.5
NNE		. 7		7								1.5	8.0
HE		2.2	5.2	3.0								10.4	6.6
EME		1.5	6.7	2.2	3.7	2.2	1.5					17.9	14.7
ŧ	. 7		.7	3.7	1.5	1.5	. 7					9.0	17.3
ESE	. 7			.7								1.5	8.0
SE				. 7	2.2	.7						3.7	19.8
358			1.5	1.5								3.0	11.0
\$				2.2	3.7	1.5		. 7				8.2	19.6
SSW			.7	. 7	1.5	2.2	. 7					6.3	19.9
SW	. 7	. 7	3.0	1.5		3.7	.7					10.4	15.9
wsw		2.2	. 7	5.2	.7							9.0	11.0
w	1.5	. 7	1.5	. 7		2.2						6.7	12.9
WNW	. 7		.7									1.5	6.0
NW			2.2									2.2	9.3
NHW	. 7	. 7	2.2	.7	<u> </u>					Ĭ	<u> </u>	4.5	8.3
VARM										T	<u></u>		
CALM	$\times$	$\times$	$\geq$	$\times$	$\times$	$\geq$	$\times$	$\times$	$\geq$	$\geq$	$\geq \leq$		
	6.0	9.7	26.9	25.4	13.4	18.2	3.7	.7				100.0	13.7

ITAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

			STATION HAME YEARS  ALL MEATHER										MONTH 1900-1100		
						GI	APS				<del></del>			16 (L.S.Y.)	
		-	CONDITION												
SPE (KN	175)	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	39 · 33	34 - 40	41 - 47	44 - 85	5M	*	MEAN WIND SPESS	
1	N		. 8	1.6	1.6								3.9	3.4	
N	ME	. 8			. 8								1.6	8.5	
N	14		. 8	3.9	4.7								9.3	10.3	
e	ME			3.1	7.8	2.3	1.6	. 8					15.5	14.6	
1			1.6	. 8	. 6	1.6							4.7	12.2	
E	\$ <b>1</b>	1.6	. 8		1.4	1.6							5.4	10.1	
\$	ie I			2.3	2.3								4.7	11.3	
\$	S.E		. 8	. 8	1.6		. 8						3.9	13.0	
!	8		. 8	1.6	2.3	5.4							10.9	16.2	
85	W		. 8			1.6		1.6					5.4	20.4	
\$	w	. 8	1.6	2.3		2.3	1.6						9.3	14.7	
w	\$W		1.0	1.6	. 8								3.9	8.6	
	w		. 8	3.1	. 8	1.6	L						6.2	11.4	
WI	NW	. 8	3.1	2.3	قم								7.4	1.3	
N	W	. 8	3.1	2.3				L					6.2	5.9	
N	w			1.6									1.6	8.5	
VA	204														
CA	um.	$\sim$	$\sim$	$\sim$	$\searrow$	$\sim$	$\sim$		$\sim$	$\sim$		$\sim$		1	

TOTAL NUMBER OF OBSERVATIONS

C

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD1	MANI OPTICAL SITE HI NORTH TOWER	78-79 YEARS	APR MONYH				
	ALL MEATHER GLASS						
	CON	DITION					

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	30 · 33	34 - 40	41 - 47	46 - 55	514	%	MEAN WHAT SPEED
N			_ 8	1.6								2.3	9.
NNE	8		3.1									3.9	6.
H		3.1	3.1		. 8							7.0	7.
3148		1.6	4.7	5.4								11.6	10.
		. 8	2.3	2.3	1.6	2.3					1	9.3	15.
ESE		2.3			8							3.9	9.
SE		. 8		2.3								3.9	9.
354		. 8	2.3	5.4								9.3	11.
8		2.3		1.6		1.6		. 8				6.2	16.
SSW	. 8	3.1	2.3	2.3	4.7							13.2	12.
sw		. 8	1.6	2.3	1.6	1.6	. 8					8.5	15.
wsw				1.6								2.3	12.
w	1.6	3.9		1.6						1		7.0	6.
WNW		1.6	1.6		1.6							4.7	11.
NW	. 8	. 8		8	- 4 8							3.1	9.
NNW		1.6	1.6	. 8								3.9	7.
VARBL								·					
CALM	> <	> <	><	> <	> <	> <	> <	> <	> <	> <	> <		
	7.0	23.3	25.4	27.0	12.4	5.8						100-0	11.

TOTAL NUMBER OF CRESEVATIONS

**1**2

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 1001 STATION	MAILL OPTICAL SITE HI NORTH TONER	78-79 YEARS	A P R				
	ALI MEATHER  GLASS						
	CONI	ITION					

SPEED (KNTS) DIR.	1 - 3	4 - 4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 49	41 - 47	46 - 55	244	*	MEAM OHIV SPEED
N		2.1	1.6									5.4	6.6
HHE		2.3	2.3	1.6								6.2	Bal
HE	L		2.3	3.1								6.2	10.1
<b>THE</b>		. 8	8		. 9							2.3	10.0
ŧ				4.7	3.1	1.6							15.3
181			3.1									4.7	8.3
u			1.6									2.3	6.0
<b>356</b>		8	2.3	1.6				. 8				5.4	13.3
			4.7	1.6	1.6			. 8				10.1	16.5
\$5W		L	8	3.9		1.6	1.6					7.8	18.1
sw			8	1.6	3.9	3.9						10.1	18.9
WSW		1.6										2.3	6.7
W	1.6	2.3										5.4	6.6
WWW		3.1	3.9									7.1	7.5
NW	<u> </u>	2.3	2.3									6.2	9.4
NHW	1.6	1.6	1.6	2.3								7.0	7.8
VARM													L
CALM	$\geq \leq$	$\boxtimes$	$\geq \!$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$>\!\!<$		
	6.2	18.6	28.7	24.0	10.9	7.8	1.6	1.6				100.0	11.8

TOTAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDDD1	MAUL OPTICAL SITE HI NORTH TOWER	78~79	APR MONTH					
		ALL WEATHER						
	CONI	PITION						

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	<b>5</b> M	*	MEAN WHID SPEED
N	. 8	. 8	8	2.3								4.6	8.3
NHE		1.5	3.8		.8							6.9	7.9
ME			3.1	1.5	8_							6.1	11.1
SME			8.4	5.3	1.5		<u> </u>					15.3	11.2
· ·			. 8	3.1	3.1	1.5						8.4	16.5
est .		8_										2.3	10.3
u			2.3					<u> </u>				3.1	7.5
334			1.5							ļ		3.8	15.6
8	1.5		1.5								<u> </u>	6.1	14.4
SSW	8	8	ļ	1.5	3.1	1.1		-8-			<u> </u>	10.7_	18.8
SW	<b></b>		8	3.1	3.1	3.8	ļ	<u> </u>				1145	17.9
wsw		1.5	1.5	8	ļ	<u> </u>	<u> </u>				ļ	3.8	7.6
w	1.5	1.5	1.5	1.5			L			<u> </u>		5.9	8.2
WNW	<b></b>	ļ <u> </u>	2.3	1.5	8_	<u> </u>		<u> </u>			<u> </u>	4.6	11.7
HW		8		ļ	ļ	<u> </u>						406	4.5
HHW			1.5			<b></b>					<b>↓</b>	_1.5_	7.0
VARAL								<u></u>		L		L	<u> </u>
CALM	$\geq \leq$												
		9.9	31.3	22.0	15.1	10.7		1.5			l	100.0	12.4

TOTAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

D 2021	MAILI OPTICAL STIF HI NORTH TOWER	78-79	A P R				
	ALL MEATHER						
	CONT	DITION					

SPEED (KNTS) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 . 27	29 . 23	34 - 46	41 - 47	40 - \$5	şu	*	MEAN WIND SPEED
н		1.6										2.3	7.3
NNE		2.3	1.6						[			4.7	7.5
NE			3.1	2.3								5.4	10.1
ENE			10.1	7.8	1.6	3.1						22.5	12.
ı			8	4.7	2.3	. 8						3.5	15.4
ese	. 8		. 8		1.6	. 8						3.9	14.
SE		. 8_		2.3								3.9	10.
SSE												2.3	13.
8	8	8		1.6	3.1		1.6					8.5	17.
SSW	8			2.1	2.3			. 8				6.2	17.
\$W	8	- 8	3.9	1.6	3.9	1.6						12.4	13.
wsw		. 8	3.9	3.1		1.6	1.6					16.9	14.
w			1.6									2.3	11.
WWW	8	8										2.3	
ww			1.6									3.1	12.
NHW		8											5.
VARM													
CALM	><	$\boxtimes$	$\supset <$	$\supset <$	$\supset \subset$	><	$\geq$	><	$\supset \!$	$\times$	$\supset <$		
	7.0		28. Y	20 5	17.1	8.5	3-1					100.0	1.7

TOTAL NUMBER OF OSSEVATIONS

USAFETAC FORM 0-8-5 (QL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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N, Baller

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUL OPTICAL SITE HI NORTH TONER	78-79	APR
STATION NAME	YEARS	MONTH
ALL WE	ATHER	ALL
E L	.489	HOURS (L.S.T.)
CON	DITION	
	ALL WE	MAUL OPTICAL STE HI NORTH TOWER 78-79  VEARS  ALL WEATHER  COMBITION

SPEED (KNYS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	<b>2</b> #	*	MEAN WIND SPEED
N	. 4	1.0	8	1.1								3.2	7.7
NNE	3_	1.1	1.4	5	- 1							3.3	7.7
HE		1.1	3.0	2.3	2					<u> </u>		6.8	9.5
\$ME		1.1	5.8	4.7	2.6	1.1	. 4					15.7	12.9
	2	- 4	1.2	3.6	2.5	1.0	-1					9.0	15.2
ESE	5	. 7	1.0	- 6	1							3.4	10.2
SE	- 2	- 5	1.0	1.0		1					<u> </u>	3.6	11.1
334		-3	1.9	2.3		2	1_		1	<u> </u>		4.9	13.6
	- 3	. 5	1.1	1.4	2.3	_ 8	.7	. 5	-1			7.6	17.7
SSW	4	7	. 5	2.1	2.5	1.5	• 7	• 2				8.5	17.4
\$W		1.0	2.0	2.6	2.6	2.1	. 3					11.0	14.9
WSW	2	1.1	1.6	1.7	-3	. 4	. 2					5.5	11.2
w		1.1	1.2	1.1	. 5	. 5	-1					5.7	10.2
WHW		1.0	1.4		.5	1						3.4	9.1
NW	1.0	1.2	1.4	. 4	. 7							4.7	8.4
NNW	_ 3	9	1.4	.7								3.2	7.7
VARM										L			
CALM	$\times$	$>\!\!<$	$\geq <$	$>\!\!<$	$\boxtimes$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\boxtimes$	$\boxtimes$		
	5 . 8	13-6	26.5	26.8	16.0	7.9	2.5		. 2			100.0	12.6

TOTAL NUMBER OF OSSERVATIONS

1 2

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODOO1	MAINT OPTICAL ST 2 HT NORTH TOWER	YR-79	MAY					
	ALL WEATHER CLASS							
	CON	DITION						

SPEED (KNTS) DIR.	1 - 3	4 - 4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	44 - 55	≥#	*	MEAN WIND SPEED
N	1.1	1.7	1.1	2.2								6.1	8.3
HHE	- 6	. 6	3.9	3.0	1.7					I		10.6	11.0
NE		6	1.7	2.2	1.1			- 6				اففا	13.8
ENE		1.7	4.4	6.7	2.8	6	1.1					17.2	13.9
		141	1.7	2.2	2.2	1.1	. 6					8.9	15.0
ESE		1.1		. 6	1.1	1.1						3.9	15.1
3.6		. 6	. 6	2.8	2.2	.6						6.7	15.2
356	. 6	2.2	2.2	1.1								_6.1	7.4
	6	1.1	- 6		. 6							2.8	à.0
SSW		1.7	2.2	1.7								5.6	9.0
\$W	- 6	1.1	. 6	2.2	1.1	.6						6.1	11.7
wsw		6		1.7								2.8	10.4
w	1.7	2.8										4.4	3.9
WWW	1.7	1.1	. 6									7.3	4.2
NW	1.1	2.2	. 6									3.9	4.6
NHW	1.1	1.1	1.7	.6	1.1							5.6	9.2
VARM													
CALM	$\ge$	$\ge$	$\boxtimes$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\geq \leq$	$\boxtimes$	$\boxtimes$		
	8.0	21.1	22.2	27.8	13.9	3.9	1.7					100.0	مريدا

TOTAL NUMBER OF OBSERVATIONS

C

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUI OPIICAL SITE HI NORTH TOWER	78-79 YEARS	MONTH
	ALL HE	ATHER	0300-0500 HOURS (L S.Y.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 · 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	44 - 55	≥.54	*	MEAN WIND SPEED
N	-6	- 6	2.2	3.9								7.3	13.4
NHE		2.2	1.1	1.1								5.1	7.6
NE		6	2.2	3.4	<u> </u>	<u> </u>	<u> </u>					6.2	10.4
ENE		1.1	2.8	5.1	5.1	2.2	Ĺ	<u> </u>				16.3	15.0
<u> </u>			1.1	3.4	1.7	4.5	1.7					12.4	20.0
ESE	I		1.1		2.8							3.9	15.9
ş.		2.2	_ 4_	1.7	1.7	. 6						6.7	12.0
\$56	<u> </u>	1.1	-6	1.1								2.5	8.4
		1.1	1.1	1.1			L					3.4	9.3
ssw	6_	- 6	. 6		- 6							2.2	8.0
\$W	Ĺ	2.2	3.9	2.8	1.7	. 6				[		11.2	11.2
WSW	1.7		2.2									4.5	6.9
w	1.1.	1.1	1.7									3.9	6.4
WNW	2.2	- 6	2.8									5.6	5.5
NW	1.1	3.4	1.1									5.6	4.9
NNW	6_			1.7	. 6							2.8	12.0
VARM													
CALM	$>\!\!<$	$>\!\!<$	$\geq \!$	$>\!\!<$	$\ge$	> <	$\geq \! <$	$\geq \leq$	$\geq \leq$	$\geq \leq$	>>	AND - 12 OF -	
	8.4	16.9	25.3	25.8	14.0	7.9	1.7						11.6

TOTAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO1	MAUT OPTICAL SITE HI NORTH TOWER	78-79 YEARS	MAY
	ALL HE	ATHER	1600-0800 Hours (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	48 - 55	¥.	*	MEAN WIND SPEED
N	6	- 6	1.1	3.9								6.1	11.4
NNE		1.7	3.4	1.7	- 6							7.3	9.0
NE	. 6	2.2	1.7	. 6								5.0	6.0
ENE			3.4	3.4	. 6	1.7	. 6					14.5	15.
ŧ	.6	1.1	1.7	2.2	4.5	1.7	1.7					13.4	17.
ese			1.1	1.1	.6	1.7						4.5	16.
SE		. 6	1.1	2.8	1.7							6.1	13.
SSE			1.1	. 6	1.1							2.8	13.
\$		1.1	. 6	1.1								2.8	9.
SSW				- 6								6	11.
\$W	1.7	1.7	6	2.8								6.7	8
WSW_	1.7	. 6	2.2	1.7								6.1	7.
w	1.7	1.7	2,2	. 6								6.1	5.
WHW	. 5	2.2	1.7	1.1								5.5	7.
NW	2.8	4.5										7.3	3.
NNW		1.7	. 6	2.8								5.0	10.
VARBL													
CALM	$\times$	$>\!\!<$	$\boxtimes$	$\supset <$	$\times$	$\times$	$>\!\!<$	$\times$	$\boxtimes$	$\boxtimes$	$\boxtimes$		
	10.1	19.6	22.3	31.8	8.9		2.2					100.0	11.

TOTAL NUMBER OF DESERVATIONS

the second secon

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOGGI STATION	MAUI OPIICAL SITE HI NORTH TOWER	78-79 YEARS	MONTH
	ALL WE	ATHER	0900-1100 Hours (L.S.Y.)
	CONC	DIYION	

SPEED (KNTS) DIR.	1.3	4 · 4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	2#4	*	MEAN WIND SPEED
N	6	. 6	• 6	. 6	1.1							3.4	مرب
NNE	. 6	- 6	.6	- 6								2.3	<b>9.8</b>
HE	. 6	1.1	1.7	2.5								6.3	9.7
ENE			4.0	4.0	. 6	6	. 6					9.7	12.9
	6	1.1	2.3	4.6	1.7	2.9	2.3	ļ. <u></u> .				15.4	16.8
ESE			1.1	1.1	1.7	-6				ļ		4.6	15.6
SE		1.1	- 6	3.0					ļ		ļ	5.7	9.6
SSE		6	1.7	1.1.	1.1					ļ		4.6	11.1
\$	1.1_	-6	46_	2.3							ļ <u> </u>	4.5	9.3
ssw	1.7	1.7	6	ļ	6					<b></b>		4.5	5.8
\$W	-6	2.3			- 6					ļ	ļ	3.4	6.5
wsw		2.3	- 6	1.7			ļ			ļ		5.1	7.9
w		2.3	1.7	<u> </u>					ļ		ļ	4.0	6.7
WWW	2.3	7.4	1.1	<b></b>					ļ			10.8	4.9
NW	l_l_	2.3	3.4						<del> </del>			7.4	6.5
HHW	-5	2.3	<u> </u>	2.3		1.7			<b> </b>	ļ	<del> </del>	8.0	114
VARBL				<del></del>		<b>-</b>			<b>-</b>	<b>-</b> >		<b>}</b>	<b></b>
CALM	$\geq$	$\geq \leq$	$\geq \leq$	$\geq$		$\geq \leq$	$\sim$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq \leq$		
	10.9	26.3	21.7	25.1	7.4	5.7	2.0					100-0	10.3

JATC	HUMBER	Of	OBSERVATIONS	1	75

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOMER	78-79 YEARS	MAY
		ATHER	1200-1400 HOURS (L.S.T.)
	CONE	IITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	4 - 15	244	*	MEAN WIND SPEED
N	1.1	2.9	لما									5.2	5.7
NNE		1.7	1.7	i.7								5.2	8.5
NE			2.3	1.1	.6							4.0	110
ENE	. 6	3.4	1.7	2.3	. 6	2.9						11.5	12.
e e		1.7		2.3	. 6	1.1	1.1	1.1	I			8.0	19.
ESE	1.1	. 6	1.1	. 6	.6	6						4.6	10.
SE	1	1.7	4.0	1.7								7.5	8.
328		1.1	1.1	1.1								3.4	8
\$	1.1	1.1	.6	2.9								5.7	A
\$\$W	. 6	. 6	.6	1.7	. 6							4.0	9.
SW	6	_1.1_	2.9	1.7								6.3	8.
WSW	. 6	- 6	1.1									2.3	6.
W	5	3.4	4.0	1.7								9.8	7.
WNW	1.1	4.0	6.3	- 6								12.1	6.
NW	. 5	2.9	1.7	. 6								5.7	6.
MNW		1.1	.6	2.9								4.6	9
VARBL													
CALM	$\boxtimes$	> <	$\supset \subset$	$\boxtimes$	$\boxtimes$	$\times$	$\geq \leq$	$\geq \leq$	$\geq <$	$\geq$	$\times$		
	8.5	28.2	31.0	23.0	2.9	4.6	1.1	1				100.0	9.

TAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOGO1	MAUL OPTICAL SITE HI NORTH TOWER 78-79 STATION NAME VEARS	MAY MONTH
	ALL WEATHER	1570-1700 Hours (L.Z.T.)
	CONDITION	

SPEED (KNTS) DIR.	1 . 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	44 - \$5	254	*	MEAN WIND SPEED
7	. 6			1.2	- 6							2.3	11.3
NNE		1.2	2.3	1.2								4.6	8.8
NE			1.7	3.5	1.7							6.9	12.9
ENE	- 6	1.2	4.0	4.6	2.3	. 6						13.3	11.6
l.		1.7	1.7	1.2	1.7		1.7					8.1	15.6
181			1.2	1.7	2.3							5.2	14.9
SE		1.2	1.7		. 6	1.2						4.5	11.9
\$\$E	.6	1.7	2.9	. 6								5.8	7.0
\$	1.2	1.2	_ 6	. 6								3.5	6.2
ssw		1.2	1.2	. 6				L				2.9	7.4
sw	<u> </u>	. 6	3.5	1.2	.6							5.8	10.1
wsw		3.5	1.2	- 6		<u> </u>						5.2	6.1
w	1.2	5.2	3.5									9.8	5.7
WNW		1.7	2.9	1.2								6.4	7.5
NW		6_	4.6	2.3	- 6				<u> </u>	<u> </u>		8.1	9.6
NHW		1.2	4.0	1.2		<u> </u>	l	<u> </u>	<u> </u>			7.5	8.7
VARN					L	L							
CALM	$\geq \leq$	$\boxtimes$	$\ge$										
	5.2	22.0	37.0	22.0	سمدا	1.7	1.7					100.0	9.9

TOTAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOD 1	MAUL OPTICAL STIF HI NORTH TOMER	78-79 YEARS	MAY MONTH				
	ALL WEATHER CLASS						
	CONT	DITION					

SPEED (KNTS) DIR.	1 - 3	4 - 4	7 · 10	11 - 16	17 - 21	22 - 27	20 - 33	34 · 40	41 - 47	48 - 55	254	*	MEAN WIND SPEED
N		6	. 6	- 6	1.7	. 6						4.1	15.4
NME	-6	. 6	- 6	3.5								5.2	10.6
NE	6		1.2	2.9								4.7	10.5
ENE	. 6	2.3	5.2	7.6	4.1	1.2						20.9	12.5
ŧ		. 6	1.7	1.2	-6	. 6	2.3	. 6				7.6	19.5
ESE	.6		1.2	1.7	1.2	.6						5.2	13.7
SE	1.2	2.3		1.7	. 6	1.7						7.6	12.0
388	6	2.3		1.7	6							5.2	8.0
\$	1.2	-6	. 6	1.2								3.5	6.8
SSW	1.2	1.2		1.2							<u> </u>	3.5	7.0
SW	6_	6	2.3	- 6								4.1	7.3
WSW		6	1.2	- 6								2.3	9.3
w	4.7	1.7	1.7									8.1	4.3
WNW	2.3	1.7	1.2	- 6	6							6.4	6.8
NW	2.3	1.2	2.3	3.5								9.3	8.3
NNW			. 6	1.2	. 6							2.3	14.0
VARBL													
CALM	$\geq \leq$	$>\!\!<$	> <	$\geq \leq$	$\geq \leq$	><	$>\!\!<$	><	$\triangleright \!$	><	$\geq \leq$		
	16.3	16.3	20.3	29.7	9.9	4.7	2.3	- 6				100.0	10.7

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDDD1	MAUL OPTICAL SITE HI NORTH TOWER	78-79 YEARS	MAY
		ATHER	2100-2300 HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	46 - 59	<b>5</b> #	*	MEAN WIND SPEED
N		. 5	1.1		1.1	1.7						4.6	16.1
NNE	6	1.7	4.0	2.9	1.1							10.3	10.3
NE		. 6	4.6	2.3	1.1							8.6	10.9
ENE		.6	6.3	4.0	4.6	1.1	. 6					17.2	14.0
ŧ	1.7	1.1	1.7	.6	2.3	1.1	1.7					10.3	14.5
ESE	1.1	. 6	- 16	.6	1.1	. 6						4.6	12.3
SE	. 6	1.7		1.7		1.7						5.7	13.9
356	1.1	1.1	2.3	2.9	1.1							8.6	10.2
5		1.1	. 6	- 6								2.3	7.8
\$5W	. 6	. 6	2.3	- 6								4.0	8.1
SW	.6	1.7	1.7	1.7						T		5.7	7.9
W\$W		• 6		1								1 46	4.0
w	. 6	1.1	1.1									2.9	5.8
WHW					- 6	1						- 6	17.0
NW	1.7	1.7	2.3	2.3								8.3	7.8
NHW	1.1	.6	. 6	3.4						1		5.7	10.1
VARM					1						1	1	
CALM	$\times$	$\ge$	$\times$	$\times$	$\geq \leq$	$\times$	$\times$	$\geq <$	$\geq$	$\times$	$\geq \leq$		
	0 8	15.5	29.3	23.6	13.2	6.3	2.3				i	120.0	11.4

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOMER	78-79 YEARS	MAY MONTH
		ASS ASS	HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	44 - \$5	254	*	MEAN WIND SPEED
N	46	. 9	1.0	1.6	.6	3						4.9	10.9
HHE	. 4	1.3	2.2	2.1	- 4							6.3	9.5
NE		. 6	2.1	2.3	- 6			.1				6.0	10.9
ENE	. 2	1.3	4.0	<u>د ه 5</u>	2.5	1.4	, 4					15.1	13.5
	. 4	1.1	1.5	2.2	1.9	1.6	1.6	.2				10.5	17.2
ESE .	. 4	. 3		. 9	1.4	- 6						4.6	14.3
\$E	. 3	1.4	1.1	2.0	9	. 7		<u> </u>	<u> </u>			6.3	12,0
\$\$ <b>£</b>	. 4	1.3	1.5	1.3	- 5			<u> </u>		L		4.9	9.0
_ \$	. 6	1.0		1.2	1							3.5	Bal
SSW	- 6	9	. 9		. 2							3.4	8.0
. sw	6	1.4	1.9	1.6	5_	-1						6.2	9.5
WSW	6	1.1	1.1	9		<u> </u>		<u>[</u>			<u> </u>	3.6	7.5
w	1.4	2.4	2.0	-3	<u> </u>			!		<u> </u>	<u> </u>	1 - 5 - 1	6.0
WWW	1.4	2.3	2.1	. 4	1_							8.3	6.3
NW_	1.4	2.3	2.0	1.1								6.9	6.8
New	5	1.0	1.1	2.1	3	.2	L			L		5.2	10.3
VARBL					L			L		L			
CALM	$>\!\!<$	$\geq \leq$	$>\!\!<$	$\geq$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \!$	$\boxtimes$	$\geq \leq$	$\geq \leq$		
	9.7	20.7	26.1	26.1	10.1	5.0	2.0	.3				130-0	T

TOTAL NUMBER OF CESSERVATIONS 1405

USAFETAC FORM 0-8-5 (OL-A) previous editions of this form are obsolete

CALM

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OODD1	LUAE	OPTICAL	SITE	HI NO	RTH TO	YER	78-	7.9		EARS		<del></del>		HONTH
						ALL WE	ATHER					<u> (1999 – 929)</u> Hours (c.s.t		
						CON	BITION							
	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	29 - 33	34 - 40	41 - 47	4 - 55	≥#	*	MEAN WIND SPEED
	H	. 8		8									1.7	6.0
	NNE	a B	8	2.5									4.2	5.8
	NE	8	1.7	. 8	8.3	1.7							13.3	11.8
	ENE		1.7	9.2	6.7	5.0	5.0	. 8					28.3	15.3
	•		2.5	2.5	5.7	3.3	2.5	. 8					18.3	14.9
	ESE	. 8	2.5		1.7	3.3				<u></u>			10.0	12.4
	38	.8	1.7	3.3	3.3	8							10.0	10.0
	838		. В						L					5.0
		- 9	1.7						L				2.5	3.7
	ssw		2.5										2.5	4.0
	sw		. 8											5.0
	wsw	4.2											4.2	1.8
	w	. 8												3.0
	WNW													
	MW									I				

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOBD1	MAUL OPTICAL SITE HI NORTH TOWER		HONTH
		ATHER	0300-0500 Hours (L.S.Y.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 - 55	£#	*	MEAN WING SPEEC
N	R	2.5	. 8									4.2	60
NNE	1.7	2.5	1.7	_ A B								6.7	6.
NE	A	1.7		5.9	1.7							13.1	11.
ENE		3.4	5.0	5.0	6.7	1.7			i			21.8	13.
ŧ			2.5	3.4	6.7	1.7	1.7					21.0	16.
ESE			1.7	1.7	2.5	8	. 8					7.6	17.
SE		. 8	1.7	2.5								5.0	10.
358	1.7		2.5									4.2	6.
\$	. a 3	1.7										4.5	3.
\$\$W	. 8	. e	. 8									2.5	4.
SW	8	2.5										3.4	4.
wsw		1.7										1.7	5.
w	3.4											3.4	3.
WNW	. 9	. 3										1.7	3.
NW	1.7	. 8										2.5	3.
WW	. 8	8										1.7	4.
VARM												!	1
CALM	$\boxtimes$	> <	$\geq \leq$	$\geq \leq$	$\geq \leq$	> <	$\times$	$\geq \leq$	$\geq \leq$	$\times$	$\leq$		
	14.3	20.2	16.8	24.4	17.6	4.2	2.5					100.0	11.

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOWER	78-79 YEARS	JUN MONTH
	ALL WER		0600-0800 Hours (L.S.Y.)
	CONS	ITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	4 - 51	5#	*	MEAH WIND SPEED
н		1.7	1.7									3.3	6.5
HNE	8	3.3	1.7	1.7								7.5	7.1
NE	1.7	3.3	8.3	1.7	2.5	Ĺ						17.5	9.4
ENE		3.3	1.7	9.2	3.3	2.5						20.0	13,4
ŧ		. 8		5.0	8.3	2.5						15.7	17.0
ESE		1.7	1.7	1.7	4.2	1.7						10.8	15.1
SE	. 8	1.7	1	1.7								5.0	7.2
358	2.5	1.7										4.2	3.6
5	1.7											1.7	2.5
\$5W	. 8	. 8								Ĭ		1.7	4.0
SW		8	1.7									2.5	6.7
wsw	3	. 8			Ĭ							1.7	3.1
W	. 8											. 8	3.0
WHW	1.7	.3										2.5	3.0
NW	1.7	1.7										3.3	3.8
NNW		. 8											5.0
VAROL													
CALM	><	$\boxtimes$	$\times$	$\boxtimes$	$\supset <$	$\times$	$\bowtie$	> <	> <	$\geq \leq$	$\times$		
	17.	27.7		23.8	19.3	4.7						100-0	10-

USAFETAC FORM O-8-5 (QL-A) previous editions of this form am obsolete

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODDI	MAUT OPTICAL SITE HT MORTH TOHER	78-79 YEARS	MONTH
	ALL WE	ATHER	1910-1100 Houns (L.s.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1.3	4 - 4	7 - 10	11 - 16	17 - 21	22 - 27	30 - 33	34 - 40	41 - 47	40 - 85	≥#	*	MEAN WIND SPEND
N		9	1.7									2.6	6.7
NNE		1.7	2.6	1.7	9							6.8	9.3
NE		2.6	6.0	6.0	2.6							17.1	10.9
ENE		1.7	6.0	4.3	2.6	1.7						16.2	12.7
· ·	. 9	. 9	6.8	9.3	5.1	4.3						22.2	14.3
ese		. 9	. 9	3.4	3.4	1.7						10.3	16.2
ม					9							. 9	18.0
328	1.7	9										2.6	3.3
_ !	<u> </u>												
\$5W										<u> </u>		- 2	3.0
sw	<u> </u>	1.7	- 8							<u> </u>		2.6	7.0
WSW		<u> </u>			_,				<u> </u>			L	
W	1.7	9								<u> </u>		2.5	2.7
WNW	1.7	- 2	107	,						<u> </u>		_4.3_	4.8
NW	- 9	4.3	107									6.8	5.5
NHW	1.1	- 9	1.7						<u> </u>			4.3	5.4
VARM	L	L											
CALM	<u>&gt;&lt;</u>	$\geq <$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		l
	9.4	17.9	29.9	19.7	15.4	7.7						100-0	10.9

OTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0.0001	MAUL OPTICAL SITE HI NORTH TOMER	78-79 YEARS	MONTH					
	ALL NE	ATHER	1200-1400 HOURS (L.S.Y.)					
EONDITION								

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 . 27	28 - 33	24 - 46	41 - 47	44 - 55	**	*	MEAN WIND SPEED
N		1.7	3.5									5.2	6.5
NHE		2.6	2.6	. 9								6.1	7.
HE		2.6	8.7	. 9	1.7	. 9						14.8	10.0
ENE		. 9	7.0	8.7	1.7							18.3	11.
	. 9	. 9	3.5	4.3	1.7							11.3	114
188			3.5	5.1	2.5	. 9						13.0	13.
SE	1.7	1.7			. 9							4.3	6.
<b>554</b>		. 9	9									1.7	7.
8													
\$\$W			. 9									. 9	7.
\$W	. 9					I			L			. 9	3.
wsw	G	9										1.7	2.
w	1.7	3.5	. 9									6.1	4.0
WHW	9	2.5	. 9									4.3	4.
MW	1.7	2.6	2.6									7.0	5.
NHW		2.6	1.7									4.3	6.
VARBA										Ĭ			
CALM	$\times$	$\geq <$	$\times$	$\geq \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\ge $	$\geq \leq$		
	8 . 7	23.5	36.5	29	8 - 7	1.7						120.0	9

TOTAL HUMBER OF OSSERVATIONS

**(**©

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDDD1	MANUE OPTICAL SITE HE NORTH TOWER	78-79 YEARS	JUN MONTH
		ATHER	1530-1700 House (L.E.T.)
	CONT	DITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	<b>38 · 33</b>	34 - 40	41 - 47	40 - 55	5#	*	MEAN WIND SPEED
N	. 8	- 9	8									2.5	4.7
NNE		8	2.5									3.3	7.8
HE		. 3	6.6	5.0								12.4	10.6
ENE		4.1	9.1	11.6	. 8	<u> </u>						25.6	10.1
t		3.3	1.7	9.1	2.5	4.1						20.7	14.4
684		. 8		1.7	1.7	. 8						5.3	15.0
S.E												1.7	7.0
SSE		L											
							l						
SSW						I						. 8	3.0
1W		1.7										1.7	5.5
WSW	8	3.3			I							4.1	4.2
w	8	2.5	. 8									.4.1	5.4
WWW	2.5	8	3.3									6.6	5.3
NW	A	2.5	1.7									5.0	6.0
NNW	. 8	. 8	4.1						I			5.8	6.4
VARBL											I		
CALM	$\geq \leq$	$\bowtie$	> <	$>\!\!<$	$\bowtie$	$>\!\!<$	><	> <	><	$\supset <$	><		
	7.4	23.1	32.2	27.3	5.2	5.0				7	•	120.0	9.8

OTAL NUMBER OF ORSERVATIONS

A ROLL WITH

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DCOD1	MANI OPTICAL SITE HI NORTH TOWER	78-79 YEARS					
		ALL WEATHER					
	CON	DITION					

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 85	244	*	MEAN WIND SPEED
N		1.6										2.4	4.3
NNE		4.0	1.5	2.4								8.1	8.0
NE		2.4	4.0	7.3	. 8				Ĺ	<u> </u>		14.5	10.9
BNE	. 8	5.6	8.9	9.7	1.6	. 8	. 3					28.2	10.8
			3.2	7.3	6.5	2.4	1.6					21.8	15.6
ESE			1.6		1.6	1.6						5.6	16.7
SE		1.6	1.6									4.8	7.5
SSE		A.B										1.5	6.5
8		8											4.0
SSW	1.6	-										1.6	2.5
SW	2.4	,		†								2.4	2.3
wsw													
w	A	lab			1							2.4	4.3
WNW		1.6	.8				<u> </u>					2.4	5.3
NW					1				1	1			
NNW		1.6	1.6	<del> </del>	<u> </u>							3.2	6.3
VARM		140		<b></b>		1		T	1	1			
CALM	$\supset <$	>>	$\times$	$\times$	$\times$	$\times$	$\times$	$\geq$	$\boxtimes$	$\geq$	$\ge$		
	8-1	21.8	24.2	28.2	10.5	N. R	2.4					120-0	10.4

TOTAL NUMBER OF OSSERVATIONS

1,

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOMER	78-79 YEARS	MONTH				
		ALL NEATHER GLASS					
	CON	DIVION					

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	41 - 25	≥\$4	*	MEAN WIND SPEED
н		2.4	. 8	A.B.								4.1	7.0
HHE	8	2.4		1.6								4.9	6.8
NE		1.6	7.3	3.3		. 8						13.9	10.9
ENE			9.8	13.8	6.5	2.4			I			32.5	13.5
ŧ		. 8	2.4	5.7	1.6	2.4						13.0	14.7
626		2.4	1.6	3.3	2.4	1.6						11.4	13.5
SE		2.4	1.6	1.6	2.4							8.1	11.1
358		. 8											4.0
\$	1.6											1.6	2.0
SSW	2.4											2.4	3.0
\$W	1.5				[					_		1.5	2.0
W\$W													
W													
WKW	2.4											2.4	2.3
NW	1.6	. 8										2.4	2.3
NHW		. 8	8									1.6	6.5
VARM													
CALM	$\geq \leq$	$\boxtimes$	$\times$	$\boxtimes$	$>\!\!<$	$\times$	$\times$	$\times$	$\geq$	$\ge$	$\geq$		
	1.1.6	14.6	24.4	30-1	13.0	7.3					T	100.0	11.2

TOTAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOWER	78-79 YEARS	HTHOM				
	ALL WEATHER CLASS						
	CON	BITION					

SPEED (KNTS) DIR.	1 • 3	4 - 6	7 - 10	11 - 16	17 - 21	22 . 27	28 - 33	34 - 40	41 - 47	44 - 15	**	*	MEAN WIND SPEED
N		1.5	1.3	.1								3.2	6.1
NNE	. 5	2.3	1.9	1.1	.1				Ĺ <u> </u>			5.9	7.6
NE	. 4	2.1	5.2	4.8	1.4	.2			<u> </u>			14.1	10.8
ENE	. 1	2.6	7.1	8.7	3.5	1.8	- 2		T			24.0	12.6
ŧ	. 3	1.1	2.4	6.4	4.5	2.5	- 5		I			18.1	15.1
£\$£		1.0	1.6	2.5	2.7	1.3	-1					9.3	14.7
\$4	. 5	1.4	1.3	1.3	.6							5.0	9.4
35E	. 7	. 7	. 5									2.0	5.2
8	. 5	. 5										1.1	3.2
SSW	. 9	. 5	. 2									1.7	3.8
\$W	. 7		-3									2.0	4.5
wsw	. 8	. 8										1.7	3.2
w	1.3	1.0	.2									2.5	4.2
WNW	1.3	. 9	. 8									3.0	4.4
NW	1.0	1.6	. 7					_				3.3	4.8
HHW	. 4	1.1	1.5									3.0	6.0
VARBL			1						T	Ĭ			
CALM	$\times$	$\times$	$\times$	> <	$\times$	$\boxtimes$	$\times$	> <	$\boxtimes$	$\times$	> <		
	1.7.2	20.2	25.3	24.8	12.8	5.2						100.0	10.7

TOTAL NUMBER OF OBSERVATIONS

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OBDO1	MAUL OPTICAL STIF HI NORTH TOMER	78-80 YEARS	HTHOM				
	ALL MEATHER GLASS						
	CONE	DITION					

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	4 - \$5	244	*	MEAN WING SPEEC
N		. 9	. 9									1.8	6.4
NNE	. 4	1.3	1.3	. 4		. 9	. 4					4.9	12.5
NE	1.3	2.2	4.0	2.7	1.8							12.0	9.
ENE	. 9	1.3	7.6	7.1	3.1	1.3	. 4					21.8	12.
ŧ		9	4.9	9.3	4.9	4.4						24.4	15.
ese			2.2	4.9	2.2	. 4						9.5	14.
SE	. 4		1.3	2.2	2.7			<u> </u>				7.6	14.
356		1.3	2.2	- 9				<u> </u>	<u> </u>			4.9	8.
		1.8	1.8	<u> </u>								4.0	7.
SSW		. 4						<u> </u>				. 4	4.
\$W			4										1.
W\$W	- 4		L		L				<u> </u>				3.
W		2.2	1 9					<u> </u>	<u> </u>			3.6	5.
WHW		- 4	. 9			ļ	 <del> </del>	ļ			<u></u>	143	1.
NW		<b></b>						ļ	ļ				_7.
NHW	<b></b>	- 9	- 9		ļ	ļ		ļ				2.2	
VARM		Ļ,	Ļ	L		<u></u>			Ļ			<u></u>	
CALM	$\geq \leq$	> <	> <	> <	> <	> <	> <	$>\!\!<$	$\geq$	$\geq \leq$	> <		
	4.3	13.8	29.8	28.4	15.1	B o D	. 0					100-0	12.

OTAL AUMBER OF CESTRYATIONS 221

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### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD 1	MAUT OPTICAL SITE HI NORTH TOMER	78-80 YEARS	JUL					
	ALL NEATHER							
GONDITION								

SPEED (XNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	40 - 55	244	*	MEAN WIND SPEED
N		4	1.3									1.8	7.5
HHE	. 4	1.8	. 4		. 9	. 4						4.0	10.2
NE		9	2.2	4.0	. 9	. 9						8.8	13.1
EME	4	3.1	9.7	8 . 8	3.5	. 4						26.1	11.4
ŧ		4	5.8	7.5	3.5	4.0	. 4					21.7	15.1
ESE		. 9	4.0	6.2	4.4	. 9			1			16.4	13.9
\$E		4.4	2.7	3.1								6.?	10.0
356			. 9	. 9	- 4							2.7	11.7
8		. 4	1.3		. 4							2.2	10.0
SSW			. 4									. 4	7.0
sw	. 4	. 4										. 9	4.5
W\$W								1					
w		1.3	. 4									1.8	5.5
WHW	. 4	1.3	. 4									2.2	4.4
NW	. 4	1.3	. 9									2.7	5.5
HHW		. 4	1.3	. 4								2.2	8.6
VARM										1	1		
CALM	$\times$	$\times$	$>\!\!<$	$\times$									
	2.1	13.3	31.9	31.0	14.2	6.6						100.0	12-0

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MANI OPTICAL SITE HI NORTH TOWER	78-80 YEARS	JUL
	ALI_MF	THER ASS	0600-0800 Hours (L.S.Y.)

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 · 47	40 - 55	256	*	MEAN WIND SPEED
N		9	. 9									1.8	7.0
NNE	. 5_	1.4	. 9	. 5								3.2	6.9
NE		2.7	6.8	2.3	2.3	9						14.9	11.2
<b>the</b>		3.2	5.4	10.4	4.1	_ 9						23.9	12.0
ı		. 5	4.5	6.8	6.8	2.7	. 9					22.1	15.8
ese	5	. 9	5.4	1.4	2.3	1.4	. 5					12.2	12.9
SE		1.4	1.8	1.8	1.8	_ 5						7.2	12.6
322			. 9	1.4								2.3	12.2
\$	. 5	. 5	5_									1.4	5.3
SSW	5		1.8									2.3	7.4
SW		. 5	. 9									1.4	8.0
W\$W		. 5										. 5	4.0
w													
WNW	- 5	1.8										2.3	4.0
NW		. 9	. 9									1.8	7.3
NNW	- 5	.5	1.4	. 0					1			3.2	8.7
VARM				1	1								
CALM	$\times$	$\times$	$\times$	$>\!\!<$	$\times$	$\times$	> <	> <	$\geq \leq$	$\geq$	$\geq$		
	2.7	15.3	32.0	25.2	17.1	6.3	1.4					100.0	12.0

TOTAL NUMBER OF OBSERVATIONS

222

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD1	MART OPTICAL SITE HI NORTH TOMER	78-80 YEARS	JUL
	ALL WEA		0900-1100 HOURS (L.S.T.)
	COND	ITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	<b>5</b> 14	*	MEAN WIND SPEED
N		1.8	. 9	5								3.2	7.4
NNE		. 5	4.1	. 5								5.0	8.2
NE		9	5.9	3.2	1.4	. 9						12.2	12.0
INE		1.8	5.9	5.4	3.2	1.4						17.6	12.7
ı .		1.4	7.2	5.4	5.9	4.1		. 9				24.8	15.4
ESE		. 5	4.5	2.7	2.3	. 9						10.8	12.6
SE	5	1.4	1.4	1.8	-8-						<u> </u>	5.9	9.8
\$\$E				- 9	5							2.3	12.2
		1.4	5_					<u> </u>				1.3	6.3
SSW	5			L					<u> </u>			1.4	4.3
\$W		1.4	5			<u> </u>	<u> </u>	<u> </u>				108	5.5
WSW			5_	ļ <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u></u>		5_	7.0
w	9	5			ļ			ļ	ļ			2.3	4.8
WNW		1.4	5_	ļ					ļ	ļ		1.8	5.3
NW_	2.3			L	<b></b>		<u> </u>			ļ	ļ	4.1	4.3
NNW	5	1.8	104	1.4	ļ	<u> </u>		L			ļ	5.0	7.5
VARBL			L	<u></u>	<u> </u>				<u></u>				L
CALM	$\geq \leq$	$>\!\!\!<$	$\geq \leq$										
	4.5	16.2	35.4	21.4	14.0	7.2						100-0	11.4

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TOTAL NUMBER OF OSSERVATIONS

1 (2

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO1	MAUL OPTICAL STIF HI NORTH TOMES	7R-RD YEARS	MONTH					
	ALL WEATHER							
	COM	DITION						

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 · 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	44 - 35	≥#	*	MEAN WIND SPEED
N	.5_	- 9	. 9	.5								2.7	6.7
NNE	. 5.	3.7	2.7	. 9								7.8	6.8
NE	5	2.7	5.0	3.7	2.7							14.6	10.8
ENE		- 5	5.5	7.8	1.4	1.4	. 5	. 9				17.5	14.5
ŧ		- 9	4.6	7.8	1.8	1.4	. 5					16.9	13.2
ESE		1.8	2.3	3.2	2.7	1.9						11.3	13.7
SE	_ 5_	. 5	2.7	2.3	9				L			6.8	10.8
226		. 9	. 5						L			1.4	6.3
\$		1.8	.5				I			L		2.3	6.0
\$\$W	. 5	9					<u></u>					1.4	4.0
SW		_ 9	. 5									1.4	6.0
WSW	5	- 9										1.4	4.0
*		- 9	5									1.4	5.7
WNW	1.8	9	. 9									3.7	5.4
NW	. 9	1.3	1.4	. 5	. 5				I			5.0	7.2
MilM	. 5	2.3	. 9									3.7	5.4
VARSL				L									
CALM	$\geq \leq$	> <	>>	$\geq \leq$	$\ge $	$\geq \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\boxtimes$	$\geq \leq$	$\boxtimes$	$\boxtimes$	$\boxtimes$		
	5.9	22.4	28.8	25.5	10-0	4.6		. 9				100.0	10.7

TOTAL HUMBER OF DESERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

02021	MAUL OPTICAL SITE HI NORTH TOMER	78-80	
STATION	STATION NAME	YEARS	MONTH
	ALL MEA		1500-1700
	GL/		HOURS (L.S.T.)
	COND	TION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 45	40 - 45	24	*	MEAN WIND SPEED
N		. 4	1.8									2.2	7.6
NNE		1.	4.0	2.2								7.0	9.1
Ně	9	4.4	4.9	7.6	3.1							20.9	13.7
ENE	. 9	2.2	2.2	4.9	4.4	1.3	. 4					16.4	13.B
ŧ	4	. 9	4.4	9.8	. 9	. 9		. 4		. 4		18.2	13.5
ESE			2.7	4.4	1.3		. 4					8.9	14.2
SE		- 4	- 4	2.2								3.1	11.7
358		2.7	- 4									3.6	5.3
\$					T							4	2.0
\$\$W	. 4												3.0
\$W		2.2				I						2.2	5.0
wsw													
×	-	1.8	. 9									3.1	5.4
WWW	- 4	3.1	2.2									5.8	6.1
NW	9	1.3	- 9	9		T						4.0	6.6
HHW		1.3	1.8									3.1	6.4
VARBL													
CALM	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\geq <$	$\geq \leq$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\geq \leq$		
	5.8	22.2	26.7	32.0	0.8	2.2						100-0	10.7

TOTAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO1	MAUT OPTICAL SITE HT NORTH TOMES	78-80 YEARS	MONTH				
	ALL WEATHER CLASS						
	CONI	DITION					

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 · 27	20 - 33	34 - 40	41 - 47	48 - 35	244	*	MEAN WIND SPEED
N		1.3	. 4									1.8	6.5
NNE		2.2	1.8	. 9	. 4							5.4	8.9
NE		_1.3	4.0	11.2	1.8							18.3	12.4
ENE		1.8	5.4	5.8	2.7	. 9	1.3					17.9	13.8
		1.3	9.4	8.9	. 9	2.7	. 9					24.1	13.1
£5£		1.8	3.1	4.0	. 9	. 9		. 4				11.2	12.1
38	. 4	. 9	. 4	. 9		. 4						3.1	9.7
358		. 9	. 4									1.3	5.7
S	. 4	. 4	. 4	. 4	. 4							2.2	9.6
SSW													
SW			. 4						1			. 4	8.
wsw		. 4	. 9									1.8	5.1
w		. 4	. 9									1.3	7.
WNW	1.3											1.3	2.
NW		2.2	1.3	2.2				<u> </u>			1	6.2	7.
NHW	4	1.3	143				1	T		1	T	_3.6	5.1
VARBL													
CALM		$\supset <$		$\supset <$	$\supset <$	$\supset <$	$\supset \subset$						
	3.6	17.0	10.4	34.4	7.1	4.9	2.2			T		120-0	11.0

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ÚDIDA1	MAUL OPTICAL SITE HI NORTH TOMER	78-80 YEARS	JUL MONTH
	ALL WEA		2150~2300 HOURS (L.S.T.)
	CONE	ITION	

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 19	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	40 - \$5	<b>244</b>	*	MEAN WIND SPEED
N		. 9	. 4	. 9								2.2	4.8
NNE		1.7		- 4		. 4						2.5	9.1
NE		2.2	7.0	8.7	. 9	9						19.7	11.5
ENE	. 4	. 9	6.6	12.7	2.2	3.1						25.8	13.0
ŧ		- 4	5.2	7.0	2.6	3.1						18.3	14.2
123		. 9	3.1	3.5	1.7	1.7	. 9	. 4				12.2	15.7
SE		2.2	. 9	1.7	. 4	9						6.1	11.8
322		. 9	. 9	و								2.6	9.2
\$		. 4		- 4								. 9	11.0
ssw			. 4	Γ								. 4	7.0
sw			. 9									٩	7.5
WSW	- 4	. 4	. 9									1.7	5.5
w		. 4											4.1
WNW			. 4										7.0
HW			3.5									3.5	A.I
NNW		. 4	1.3	- 4								2.2	8 . 2
VARBL		I		I									
CALM	$\supset <$	$\supset <$	$\boxtimes$	$\supset <$	$\supset \subset$	$\supset <$	$\supset <$	$\supset <$	$\supset \!$	$\supset <$	$\supset <$		
	. 0	11.8	31.4	36.7	3.0	12-0	. 0					100-0	Ī

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODO31	MAUL OPTICAL SITE HT NORTH TOMER	78-RO YEARS	MONTH
	ALL HE	ATHER	HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 · 33	34 - 40	41 - 47	40 - 55	5#	*	MEAN WIND SPEED
М	1	. 9	. 9	2								2.2	7.3
NNE	2	1.7	1.9	. 7	. 2	. 2	.1					5.0	8.9
NE	3	2.2	5.0	5.4	1.8	. 4						15.0	11.3
ENE	-3	1.8	6.0	7.9	3.1	1.3	. 3	.1				20.9	12.8
	1	. 3	5.7	7.1	3.4	2.9	. 3			. 1		21.3	14.5
ese.	-1	. 8	3.4	3.8	2.2	1.0	. 2					11.7	13.7
SE .	-2	9		2.0	- 8	3			<u> </u>			5.7	11.6
sse		. 8		. 6	. 2							2.6	9.0
	.2	8	- 6	2					<u> </u>	<u> </u>		1.9	7.7
SSW	- 2		3_	<u> </u>		<u> </u>	<u> </u>		<u> </u>			9	5.5
sw	1	. 7	. 4			<u> </u>						1.2	6.1
WSW	2_		-3		<u> </u>	<u> </u>						8	5.1
w	2	9	.6				<u> </u>	<u> </u>				1.7	5.6
WNW	6_	1.1	.7									2.3	5.3
NW	6_	1.1	1.3	. 4					Ĺ			3.5	6.7
NHW	2	1.2	1.3	4		ļ			L			3.1	7.2
VARM													
CALM	$\geq \leq$												
	3.7	16.5	30.8	28.5	11.9	6.2				-1		100.0	11.6

TOTAL NUMBER OF CASERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOD1	MALII OPTICAL SITE HI NORTH TOMER	78-80 VE/ VE	MONTH
	ALL YE	ATHER ADD	0000-0200 Hours (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4 • 6	7 - 10	11 - 14	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	46 - 55	584	*	MEAN WIND SPEED
N		-1	.7									2.2	5.2
NNE	. 1	1.5	1.8	4								4.4	6.4
NE		3.7	5.1	4.0	2.6	. 4						16.5	16.2
ENE		2.9	6.6	8.1	2.2	1.1						21.3	11.6
•		2.2	3.3	8.8	2.9	1.8	- 4	- 4				20.2	14.0
Est	_1.1	3.7	4.0	3.7	2.2	1.1						15.3	10.7
st		1.1	2.2	1.1	7							5.1	2.9
358	1.1	2.2	7									4.3	٥٠٥
	7											. 7	3.0
SSW	7	. 4	.,									2.2	6.0
sw	1.1											1.1	2.3
WSW	1.5											1.5	2.3
w	. 7			1.1								1.8	A.A
WHW		1.1										1.8	3.6
NW		. 7										1.1	6.0
NW									!				
VARM						T					1		
CALM	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\ge $	$\geq$	$\boxtimes$	$\times$	$\geq$	$\geq$	$\boxtimes$	$\geq \leq$		
	10.7	20.2	25.7	22.6	10.7	4.4						1100-3	13.3

TOTAL NUMBER OF OSSERVATIONS

2

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAILI OPTICAL STIF HT MORTH TOMER	78-80 YEARS	AUG MONTH
		ATHER	3300-0500 HOURS (S.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR,	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	216	*	MEAN WIND SPEED
N	. 7		. 4	1.1								2.2	8.3
NNE	. 4	1.5	Lad	7								4.4	7.2
ME	- 7	1.8	7.4	3.7	1.8	-4						15.9	10.5
ene		3.3	6.3	7.0	3.3	1.5					.4	22.1	14.1
		1.8	6.6	2.5	2.6	1.5	. 4					15.5	12.4
est		2.6	2.2	5.9	1.5		.7		<u> </u>			12.9	12.1
58		2.2	2.6	1.1			4		ļ			2.6	10.0
225							ļ	ļ	<b> </b>	ļ	<b> </b>	2.6	5.4
			_lel_								ļ	1.0	5.4
SSW				بعب		ļ			<b> </b>	· 	<b></b>	7	7.0
<u>\$W</u>	1.8		· · · · · · · · · · · · · · · · · · ·			<del></del>			<b></b> _	<del></del>	<b></b>	2.5	6.4
W\$W		- 7							<del> </del>	<del></del>	<b></b> -	1.8	5.2
www	1.8	1.5							<del> </del>		<del></del>	3.3	5.0
NW	101		1.1	<del> </del>					<del> </del>	<b></b>		1 . 8	3.9
NHW	1.5	• 4	.,7	<b></b>		<del></del>			<del> </del>		<del> </del>	3.0	6.0 4.C
VARBL	1.63			<del> </del>					<del> </del>		<del>                                     </del>		
CALM	$\boxtimes$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\geq \leq$		
	11.4	19.5	31.0	27.6	15.3	تَمتَ	1.5					100.0	10.5

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00001	MAUI OPTICAL SITE HI NORTH TOMER	78-80	AUS
STATION	STATION NAME	YEARS	MONTH
	ALL WE	THER	0600+0800
	GL.	ADD	HOURS (L.S.T.)
	CONE	DITION	

SPEED (KNTS) DIR,	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	4 - 55	<b>2</b> #	*	MEAN WIND SPEED
H	, u	. 4	2.6	, ų								3.7	7.6
NNE	4	3.3	2.6	.7								7.0	7.1
NE		2.9	3.7	5.9	1.1		. 4					14.0	10.9
ENE		2.6	8.8	11.8	1.5	2.2						27.2	11.9
<u>t</u>	. 7	1.5	4.5	4.0	1.8	. 4	. 7					14.0	12.0
ESE	1.1	2.2	1.5	2.9	.7	1.1	. 4					9.9	11.4
SE	1.5	1.5	1.1	. 7	. 7	- 4				<u> </u>		5.9	9.1
SSE	1.1	4		1.1								3.3	7.9
	1	- 4				<u> </u>				<u> </u>		1.1	3.3
ssw	4												3.0
sw	1-1-1	1.1	1 7	7	.4	<u> </u>						4.0	7.1
W\$W	1.	<u> </u>									ļ	1.1	5.7
W	2.6	. 7										3.7	3.6
WNW		L							l		<u> </u>	1.1	4.0
NW	1.1	1 .7	- 4	<u> </u>								2.2	4.0
NNW	1	<u> </u>	1 .7		<u> </u>	<u> </u>		<u> </u>		<u> </u>		1.1	6.3
VARM													
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	><			><	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	<u> </u>	
	13.2	18.4	27.6	29.0	6.2	N = 0	1.5					120-0	0.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDDD1	MAUL OPTICAL SITE HI NORTH TOHER	78-RO YEARS	AUS
	ALL HE	THER ADE	1913-1100 HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 35	**	*	MEAN WIND SPEED
N		2.3	1.5									3.8	6.5
NNE	8	2.3	2.6	. 8								6.4	7.0
NE	_ 4	1.9	6.8	4.5	1.9	. 4	- 4					16.2	11.1
<b>ENE</b>	. 8	3.4	5.6	6.0	2.6	2.6	. 8					21.8	13.1
t .	. 4	1.5	2.6	4.1	2.6	. 4						11.7	12.4
123		. 8	1.5	4.1	. 4	. 8						7.5	12.6
SE	4	1.9	. 8	1.9	. 4	. 4	. 8	. 4				6.8	13.4
358	. 4	1.3	8	. 8	. 4							4.1	8.0
\$	1.1	1.1	. 4									2.6	4.4
\$5W		. 8										8	4.0
sw		. 8										_ 8	4.5
wsw	1.5	.8	. 8									3.3	4 .
w	- 8	1.5	. 4	8								3.4	6.1
WNW		1.5										2.3	3.7
NW	. B	3.0	8	. 4								4.9	5.3
NNW		1.1	1.9	1.1								4.1	8.3
VARM													
CALM		$\boxtimes$	> <	$\geq$	$\geq <$	$\geq$	$\geq \leq$	$\boxtimes$	$\boxtimes$	$\geq$	> <		
	7.9	25.3	26.3	24.4	8.3	4.5	1.9					Ĭ	10.2

TOTAL NUMBER OF OSSERVATIONS

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODOD1	MAUL OPTICAL SITE HI NORTH TOMER	78-80 YEARS	AUG MONTH
•12.115.11	ALL WEA	ITHER ASS	1230-1400 Hours (L.S.Y.)
•	СОНВ	HOIFIG	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	46 - 55	ž#	*	MEAN WIND SPEED
N	. 4	1.1	2.2	. 4								4.1	6.9
NNE	.7	2.2	4.5	1.5								9.0	7.5
NE		1.9	3.4	4.5	1.9	1.5	. 4					13.5	12.9
ENE		. 7	4.9	6.4	3.0	. 4			<u> </u>			15.4	13.0
ŧ	. 4	2.2	4.9	4.5	1.9	1.9		. 4				16.1	13.0
ESE	7	1.5		1.1				- 4				4.1	9.7
SE		1.1	1.5	7	.7		. 4				ļ	4.5	11.3
358	7	1.1	1.9	7					L			4.5	7.1
	-4-	ļ										1-1-1	12.3
SSW	4_	1.1		ļ		ļ		L	ļ		ļ	1.9	5.0
\$W		1.9			,	ļ						2.2	5.3
W\$W	1.5	1.1				<u> </u>		L		ļ		3.4	5.1
w	1.9	2.2						<u> </u>		ļ		4.9	5.0
WNW	1-1-	3.	1.5.						ļ		<u> </u>	6.0	5.6
NW_		1.5	1.9	<u> </u>	ļ			<b></b>	<del> </del>	ļ			7.0
NWW	1.9	1.5	1.5		4	<b></b>		<b> </b>		ļ	ļ	6.0	7.3
VARM	<b>-</b>							<b>_</b>	_	<b>-</b>	<b>_</b>	<b></b>	<del> </del>
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$										
	امما	24.3	30.3	21.7	7.9	دما	7	_,_	<u></u>			100.0	9.8

TOTAL NUMBER OF OSSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OOGO1	MAUL OPTICAL SITE HI NORTH TOMER	78-80 YEARS	MONTH
	ALL NE	THER	1538-1788 HOURS (L.S.T.)
	CONF	ITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 . 27	28 - 33	34 - 40	41 - 47	46 - 55	<b>5</b> #	*	MEA WIN SPEE
N		2.3	1.5	1.1								5.6	6.
NNE	. 4	1.5	3.0	. 8				I				5.6	7.
HE	_ 4	4 . 1	3.0	1.9	8	. e				L		10.9	9.
ENE		3.8	8.3	5.3	3.0	.4	. 4				. 4	21.4	12.
	1.5	1.5	4.9	4.9	1.5	2.6		4				17.3	13.
181	. 4	1.5	2.3	1.5	. 4		. 4					6.4	10
3.6		3.0	1.1					. 4				4.5	8.
388		1.5	1.1	1.1	. 8	4						4.9	10.
\$		4.8	. 4			. 4						1.5	10.
SSW.		2.6										2.5	4.
sw	. 8	. 3								i		1.5	3.
wsw	1.1	- 8							ſ			1.9	3,
w	. 4	1.5	. 8									2.6	5.
WHW		3.0	. 8									4.1	5.
NW		2.6	1.5	. 4	1	1		1				4.9	6
NNW	. 4	- 4	1.1	1.9	.4							4.1	10
VARBL		1			1	1	<u> </u>	<u> </u>					
CALIA	>		$\sim$	$\sim$	> <	>	> <	>	><	$\sim$	$\overline{}$		
	6.8	31.6	29.7		4.8	4.5					1	100.0	

TOTAL NUMBER OF DESERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SOOOL STATION	MAUL OPTICAL SITE HI NORTH TOWER	78-80 VEARS	AUS MONTH
	ALL WE	ATHER	1800-2000 HOURS (U.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	¥5	*	MEAN WIND SPEED
N	4	1.8	1.1	1.1								4.4	7.4
NNE		1.5	2.6	7_		<u> </u>			<u> </u>			4.8	7.7
NE	. 4	1.5	5.1	4.0	. 7	4	- 4					12.5	10.8
ENE	1.1	la5	8.5	8.8	3.3	1.1	. 4					24.6	12.0
ŧ		1.5	7.7	6.6	1.1	1.5	1.5					21.0	13.1
ESE	4	1.1	2.6	2.2	.7		. 4	.7				8.1	13.9
SE	. 4	1.1	1.5	. 7	. 4							4.0	8.5
35E		. 7	1.1	- 4								2.9	6.1
												1.5	7.0
ssw	7	4	1.1			L						2.2	5.0
sw	1.1	4	-7									2.2	4.3
wsw	1.5	. ц	. 4	. 4								2.5	5.1
w	1.1	4	ų,									1.8	4.0
WNW	1.5	1.1			L							2.9	3.9
NW	1.8	- 4	7	. 4								3.3	5.3
HHW		4	4	. 4								1.1	8.7
VARBL													
CALM	$\geq \leq$	$>\!\!<$	$\boxtimes$	$\geq \leq$	$\boxtimes$	$\geq \leq$							
	12.1	14.3	34.6	26.1	6.2	2.0	2.6	الملا				100-D	10.3

TOTAL NUMBER OF ORSERVATIONS

272

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDDD1	MAUL OPTICAL SITE HI NORTH TONER	78-RD YEARS	A U.S.
		ASS	2135-2380 HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	17 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	40 - 55	<b>5</b> #	*	MEAN WIND SPEED
N	1.5	1.9	.7	. 4			I					4.4	5.5
HNE	. 4	1.5	1.9	1.1	. 4	I						5.2	8.6
NE	. 4	1.9	5.2	4.4	.7	1.1	4					14.1	11.7
ENE	• 7	2.2	7.8	10.0	3.3	• 7						24.8	11.9
ŧ	. 7	1.9	3.7	9.6	4.1	3.3	4					23.7	14.2
ese	1.1		1.9	2.2	. 4	1.9						7.4	13.8
SE	. 7	2.2	2.6	1.5				<u></u>				7.0	7.2
SSE	L	2.2	2.6			<u> </u>						4.5	7.3
	. 7		. 4	<u> </u>	<u> </u>	<u> </u>						1.1	4.0
55W	. 7		. 4				<u></u>		L		<u> </u>	1.1	4.0
sw		4								<u> </u>		.4	6.0
WSW			- 4	. 7			<u> </u>	<u> </u>		<b></b>		1.1	10.0
w	1.1		- 4	<u> </u>				ļ	<u> </u>			1.5	3.8
WNW		4_		<u> </u>		<u> </u>	<u> </u>	ļ		<u> </u>			3.5
NW	- 4	. 7										1.1	4.3
NNW	. 4		. 4	7		<u> </u>						1.5	8.5
VARSL													
CALM	$\geq \leq$												
	9.3	15.2	28.1	30.7	8.9	7.0	.,					100.0	11.0

TOTAL NUMBER OF OBSERVATIONS 27 II

USAFETAC  $\frac{\text{FORM}}{\text{JUL 64}}$  0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

O DOD 1	MAUI OPTICAL SITE HI NORTH TONER	7A-AD YEARS	MONTH -
	ALL NE	ATHER	HOURS (L 7 T)
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 - 35	**	*	MEAN WIND SPEED
N	6	1.3	1.3	. 6								3.8	6.8
NNE	. 5	1.9	2.6	. 8	a n							5.8	7.4
NE		2.5	5.0	4.1	1.4		• 2					14.2	11.0
ENE	5	2.6	7.1	7.9	2.8	1.3	.2				.1	22.4	12.4
ŧ	. 6	1.8	4.8	5.7	2.3	1.7	. 4	. 2				17.4	13.1
ESE	-6	1.7	2.0	3.0	.8	. 6	2	1				9.0	11.8
SE	. 4	1.8	1.7	1.0	. 4	. 1	. 2	1				5.6	9.8
356	- 5	1.3	1.2	.5	. 2	0						3.9	7.4
\$	- 6			-6		1						1.4	5.3
SSW			. 3	1								1.5	5.0
\$\W		- 6	. 2	1	1							1.9	5.5
W\$W	1.1	5	. 2				Ĭ	L				2.0	4.9
w	1.3	9		. 4				L				2.9	5.2
WNW	8	1.5	.3	n								2.7	4.6
NW		1.3	. R	1								2.8	5.7
NHW	- 6	. 5	8	.6	-1							2.6	7.8
VARM												L	
CALM	$\geq \leq$	$\boxtimes$	$\geq \leq$	> <	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\ge $	$\geq \leq$		
	12.2	21.1	29.2	25.3	8.2	4.4	, ,				.,	100.0	10.2

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DAGA1	MAIII OPTICAL SITE HI NORTH TOMER	78-80 YEARS	<u> 5 Е Р</u> Монти
	ALL WEA		0.000 = 0200 HOURS (L.S.T.)
	COMB	ITION	

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	44 - 55	2#	*	MEAN WIND SPEED
N		1.2	. 4	. 4								1.9	7.4
NNE	. 4	. B	. 4	2.3		4						4.2	10.7
NE	. 4	1.5	3.9	8.5	1.5	1.2						17.0	12.5
ENS	. 8	1.5	5.8	13.5	8.9	2.3		I .				32.8	14.1
ŧ		1.5	3.9	5.8	5.8	2.3						20.1	14.
ESE	. 4		1.2	1.9	2.3	. 8						ပ်စစ်	14.
SE	. 4	1.2	. 8	1.2	. 4			I				3.9	8.
SSE		a d	. 8	1.2	. 4							3.1	10.
5	. 8	. 4	1.5									2.7	5.
SSW		1.2										1.2	S.
\$W	3	4	4			l						1.2	4.
wsw	4	. 3	В									1.9	5.
w		. 4										. 4	5.
WNW	8												2.
NW		1.2										1.2	5.
NHW	. 4	. 4	. 4									1.2	4.
VARBL			l										
CALM	><	><	$\triangleright <$	><	> <	><	$>\!\!\!<$	$\geq \leq$	$\triangleright <$	$\boxtimes$	$\geq$		
	5.8	13.1	20.1	34.7	10.3	6.9						1	12.

TOTAL NUMBER OF ORSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDDD1	MAUL OPTICAL SITE HT NORTH TOHER		ARS	SEP MONTH
	ALL W	ATHER	W-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	0300-0500 Hours (L.S.T.)
	ce	1917109	<del></del>	
			-	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	49 - 55	≥#	*	MEAN WIND SPEED
N		8_		. 8								1.9	8.6
NNE			1.1	1.1				<u></u>				3.4	10.4
NE		1.9	6.8	4.0	4.9	. 4						19.0	12.2
ENE		1.5	8.4	9.9	5.7	1.5			ļ			27.4	13.0
R		1.5	5.7	6.1	6.5	1.1						21.3	13.4
ese	. 4	1.5	2.7	3.0	2.3	- 4					i	10.3	12.8
SE		1.5	. 4	1.1								3.4	7.6
358			. 4	. A								1.1	10.7
\$	. 4	. R	. 4									1.5	5.8
SSW		4							<del> </del>	·····		. 8	3.5
sw		1.5	. 4		<b></b>	<u> </u>			·			1.9	5.4
WSW	. 4	- 8			<u> </u>	<b></b>			<b></b>			1.1	Ţ
w		. 3	<del></del>		<del> </del>								H a D
WHW	. 9			<b></b>									400
NW			- 4	<del> </del>	· · · · · · · · · · · · · · · · · · ·	<del></del>						1-5-	5.0
NHW		1.9				<del> </del>						2.7	5.6
VARM		1.5			<del> </del> -	<b></b>						1.9	4.5
			<del></del>		<b>-</b>			<del></del>				<del> </del>	ļ <u>.</u>
CALM	$\geq \leq$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq$	> <	$\geq \leq$	$\geq \leq$	$\geq \leq$	> <	$\geq \leq$		
	4.6	17.1	27.4	27.8	19.8	3.4						I	11.6

TOTAL NUMBER OF OSSERVATIONS

COMPANY, MANAGES

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

7 <u>0.71</u>	MAUL OPTICAL SITE HI NORTH TOWER	78-80. YEARS	SEP
		ATHER	0633-3800 ноин» (с.в.т.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	44 - 55	284	*	MEAN WIND SPEED
N	, li	1.2	. 4									1.9	4.8
NNE	. 4	1.5	1.2	1,2	ш							4.6	8.8
NE		2.7	5.8	7.7	3.9	.8	.4					21.6	12.2
ENE	4	1.9	9.7	13.9	5.9	1.2	<u> </u>				L	34.0	12.8
_ •		1.5	2.7	4.2	3.9	3.9						16.6	15.3
ESE		1.2	2.3	1.2	2.3	. 4						7.3	12.9
5.6				1.5								2.3	14.2
\$\$E		4							ļ <u> </u>	ļ		1.2	8.3
_ •		. 8	- 4		ļ		ļ		<u> </u>	ļ		1.5	8.3
SSW			ļ		<u> </u>		<b></b>						
şw	8_	6.		↓		ļ	ļ		ļ	<b> </b>		1.5	3.5
WSW	8_	- 4	<u> </u>	ļ	ļ		ļ	ļ		ļ	ļ	1.2	3.7
w					<u> </u>		<u> </u>	ļ		<del> </del>		- 4	1.0
WNW		1.2			ļ	<u> </u>	ļ	L	<u> </u>	ļ	<u> </u>	1.2	4.7
HW_		1.5	ļ		ļ	<b></b> _		<u> </u>		<del> </del>		2.3	6.2
NNW		- 8	- 8	ļ	ļ	ļ	ļ	ļ		ļ		2.3	5.8
VARBL			<b>_</b>		Ļ	L							ļ
CALM	$\geq \leq$	$\simeq$	$\geq \leq$	$\geq \leq$									
	5.0	15.A	24.3	30.5	17.4	<u></u>						120.0	12.0

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OCUTI	MAUL OPTICAL SITE HI NORTH TOMER	78-80 VEARS	SED MONTH
	ALL HEA	THER	1900-1100 HOURS (L.S.T.)
	CONS	ITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 · 10	11 - 16	17 - 21	22 · 27	<b>20 · 3</b> 3	34 - 40	41 - 47	44 - 55	<b>5</b> #	%	MEAN WIND SPEED
N		1.5	, α									2.5	ق د
NNE	1.1	. 8	1.9	2.6	. 4							6.8	9.2
NE	. 4	2.6	3.8	4.9	3.8	. 4		I				15.B	12.4
ENE		2.3	6.4	10.6	5.7	2.3	. 4					27.5	13.7
	8	lal	2.6	6.8	4.5	2.3						18.1	14.0
ESE			2.6	2.3	. 4							6.0	10.0
54	1.5	1.1	. 4	. 4	. 4	. 4						4.2	8.6
SSE		1.5	1.1									2.5	5.3
		- 4	. 4									. 8	5.5
\$\$W				. 4								4	12.0
SW		. 8											4.5
W\$W		. 4										4	5.0
w		1.1										1.1	5.0
WHW		1.1										2.3	5.0
NW	1.5	4.2	1.1									6.8	5.0
NHW	1.9	. 8	1.5								Ĭ	4.2	5.1
VARBL													
CALM	$\geq \leq$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!\!<$	><	> <	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\triangleright <$		
	8.7	19.6	23.0	27.9	15.1	5.3						100.0	חבנו

TOTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO1	MAUL OPTICAL SITE HI NORTH TOMER	78-80.	432 HTROM
		ATHER	1200-1400 HOURS (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR,	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	24	*	MEAN WIND SPEED
N	. 4	, 4	2, ₹	- 4								3.4	7.8
NNE		. 8	3.8	2.3	1.1						<u> </u>	8.2	11.1
NE		1.9	7.7	9.2	1.9	1.1						21.8	11.5
ENE	. 4	1.1	4.6	7.7	5.4	. 4						19.5	12.9
ŧ		2.7	3.8	3. 9		1.1						11.9	11.6
181		. 4	. 8	3.4	1.1	8						6.5	14.5
SE	1.1	1.1	1.1		. 4	4						5.0	9.0
322	. 4	1.1	1.1									2.7	6.1
\$	. 4	. 4										8	3.5
ssw	. 4	. 3										1.1	3.0
SW	1.9	1.1						1				3.1	3.4
WSW	. 4	- 4		_				1				3_	4.1
w	4	1.5	. 4									2.3	5.
WNW	4	2.3	. 4					I				3.1	4 .
NW	. 8	3.4	3.1									7.3	5.
WW		1.5		. 8						1		2.7	7.
VARM			1	1					1	1	1	<u> </u>	
CALM	$\geq$	$\times$	> <	$\times$	$\times$	$\times$	$\geq$	$\boxtimes$	$\geq$	$\boxtimes$	$\geq \leq$		
	6.9	21.1	29.5	28.0	12.7	1.0						100.0	10.

TOTAL NUMBER OF ORSERVATIONS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

J <u>D JD1</u>	MAUL OPTICAL SITE HI NORTH TOHER	78-A0 YEARS	SEP MONT!
		ATHER	1500-1700 HOUNE (L.E.Y.)
	CONI	ITION	

SPEED (KNYS) DIR.	1 - 3	4.6	7 · 10	11 - 16	17 - 21	22 - 27	<b>28</b> · 23	34 - 40	41 - 47	40 - 55	2#	*	MEAN WING SPEEC
N		_1.1	, A									2.7	6.1
NNF		1.5	4.0	5.3	1.5						L	13.7	1.10
NE		_1.1	5.7	11 2	1.5							19.8	11.
ENE		1.1	4.9	3.1	4.6	-8						20.5	13.
E		1.1	3.0	5.7	7.3	1.9			T			14.1	13.
:se		. 8	- 4	2.3	. 4	. 8			Г -		)	4.6	13.
\$8		1.5	8	. 6					<u> </u>			3.3	7.
SSE		. 4	1.1	1	-							2.3	5.
\$				1		<u> </u>			1				3.
ssw			. 6									1.1	4.
sw	1.1		, u					1		i	1	1.5	4.
wsw .		. 4		<u> </u>				<b> </b>			† <del></del> -	. 6	4
w	1.0	2.3		1				l	1			4.2	3.
WNW		1.1	1.1						<del>                                     </del>			3.3	5.
NW	. 3	2.7		<u> </u>		<del>                                     </del>			<del> </del>	<u> </u>	<del>                                     </del>	1.0	4
New	. 4	1.0	2.7	†	<u> </u>	<u> </u>	<del> </del>	<del> </del>			<b>†</b>	4.9	6
VARBL		<del></del>	<del>- ` * ' -</del>		<b> </b> -		<b></b>		1		<del>                                     </del>	<del>                                     </del>	
CALM	$\overline{}$											Ì	
CALM		$\sim$											
TI U	ى . با ي	17.1	26.2	34.6	23.3	3.4						120-0	10.

USAFETAC FORM 0-9-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

22221	MAHT OPTICAL SITE HI NORTH TOWER	7B-80	<u>932</u>
STATION	STATION NAME	YEARS	MONTH
		ATT ATT	1800-2000 Hours (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	20 · 33	34 - 40	41 - 47	44 - \$5	≥#	*	MEAN WIND SPEED
N	1.1	1.1	1.9	1.1								5.3	7.6
NNE	8	. 8	1.1	1.5	1.1	. 4						5.7	11.3
-ŧ	1.1	. 8	5.7	12.1	5.7	. 8						26.1	تمدد
ENE	. 6		3.8	12.5	4.5	1.1						22.7	14.0
t		1.5	2.7	4.9	3.6	2.3	. 4					15.2	15.0
ese	1.5	1.1		2.3	. 4	1.5						6.8	12.
26		В	4	. 8	.4						L	2.3	13.1
558	. 4	3	4									1.5	7.
\$		4	1.1									1.5	6.0
ssw		. 9										. 8	6.1
sw	l a	. 4	. 4									1.5	4 . 1
wsw	4	. 8										1.1	4 .
w	. 9	. 4									<u> </u>	1.1	2.
WNW	. 4	1.9										2.3	14
NW_	1.1	. 4	. 8				L					2.3	4 .
NHW	1.5		1.9									3.3	5.
VARM													
CALM	$\geq <$	$>\!\!<$	$\geq \!$	$\geq <$	$\geq \leq$	> <	$\geq \leq$	$\times$	$\boxtimes$	$\geq \!$	$\geq \leq$		
	12.6	11.7	20-1	35.6	15.5	6.1					ĺ	100.0	11.

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Anna Arch

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

COCOL STATION	MAUL OPTICAL SITE HI NORTH TONER	78-80 YEARS	SEP MONTH
		ATHER	2100-2300 House (L 8.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	<b>5</b> 84	*	MEAN WIND SPEED
N		1.5	. 4	. 4								2.3	8.3
HHE	, Li	. 9	1.9	1.9	4							5.4	10.3
HE	1.7		3.0	12.0	4.6	1.2						22.8	13.6
ENE	. 4	1.2	4.2	11.6	9.7	1.9						29.3	14.5
t		3.1	1.9	4.6	5.0	2.7						17.8	14.7
ESE	8		2.3	1.9	1.2	. 8						6.9	12.6
ŞE	1.2	1.5	. 8									4.2	7.4
SSE	1.2	. 4	. 8.									2.3	4.3
\$		. 8										1.2	6.7
SSW		. 8									[	1.2	3.3
sw		1.5										1.9	4.8
wsw		. 4		]								4	6.0
w													
WWW		. 4										4	6.0
NW	. 8	. 8	. 8									2.3	5.8
HHW	. 8	- 4	4.8	1					1			1.9	5.2
VARBL			1	1		1			<b>†</b>	T		<u> </u>	
CALM	$\geq$	> <	$\geq$	$\boxtimes$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq$	$\geq$	$\geq \leq$		
	7.7	13.5	18-1	33.2	2.1.8	6.6						120-2	12.4

TOTAL NUMBER OF OSSERVATIONS 259

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

The fair of the

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODOD1	MAUL OPTICAL SITE HI NORTH TOMER	78-80 YEA8	S F D MONTH
	ALL NE	ATHER	HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 . 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	4 - 55	<b>\$</b> #	*	MEAN WIND SPEED
N	3	1.1	. 9	. 4								2.7	7.3
HHE	5	9	2.1	2.3	.7	. 1						6.5	10.5
NE	- 5	1.6	5.4	3.8	3.5	. 7	-					20.5	12.
ENE	. 4	1.3	6.0	11.1	6.4	1.4	0					26.7	13.
ŧ	. 3	1.8	3.3	5.2	4.0	2.2	2					10.9	14.0
ESE	. 5	-6	1.5	2.3	1.3	. 7						6.9	12.
SE	. 6	1.1	.6	. 9	.2	- 1	٥					3.5	8
SSE	. 3	- 6		. 3	• 0							2.1	7.
\$	. 2	. 5	.5	٥								1.3	6.
55W	2	. 5	.0	a C								. 8	4.1
sw	. 7	. 8	.2									1.7	4.
wsw	3	5	-1									1.0	4.
w	4	8	0								<u></u>	1.3	4.
WNW	5_	1.1	3_									1.8	4.
HW	. 7	2.7	. 8									3.5	5.
NHW		1.0	1.1	-1								2.9	5.
VARBL													
CALM	$\triangleright \!$	$\triangleright \!$	$\supset <$	$\supset <$	><	$\triangleright \!$	$>\!\!<$	$\triangleright <$	$\triangleright\!$	$\triangleright <$	$\triangleright <$		
	, ,	16.1	23.6	31.5	16.1	5.2	. 2	1				100.0	11

OTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOWER	78-80 YEARS	OCT MONTH
		ATHER ASS	0000 (c.s.r.)
	CONI	DITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	29 - 23	24 - 40	41 - 47	44 - 35	246	*	MEAN WINE SPEEC
N												а	9.0
HHE		ئمنا	2.0									4.3	B
NE		. 4	4.3	3.5								8.2	10.
ENE	. 4	2.4	4.3	11.0	3.5	1.2	. 4					23.1	13.
ŧ		1.2	3.1	5.9	5.1	2.7	1.2					19.2	16.
ESE		. 8	2.4	2.7	. 4		. 4	. 4	. 4			7.5	14.
SE		2.0	2.7	1.2							1	5.9	8.
SSE	. 4	1.2	1.6	1.2								4.3	7.
5	. 4	2.4		. 4								3.9	6.
ssw	. 4	1.2	. 8									2.7	7.
sw	. 4	2.0	2.4	.1.2.								5.9	7.
WSW	L	- 8	. 4									1.5	5.
w	. 4	. 8									<u> </u>	1.2	4.
WNW	1.2	1.2	. 4	. 4								3.1	5.
NW	4	2.7	2.0	. 4							1	5.5	6.
HHW		. 4	1 . 4	1.6	. 4	1	1					2.7	11.
VARBL		1	1								<del> </del>	1	
CALM	> <	$\supset <$	$\supset <$	>>	> <	> <	$\supset <$	$\overline{}$	$\supset \!\!\! <$	$\sim$	> <		
		21.2	27.5	31-0	0.4	3.0	2-0					100.0	<b>.</b>

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CODD1	MAJI DETICAL STIF HI NORTH TOHER		OCT MONTH
		ATHER	0300-0500 Hours (L.S.T.)
	CONE	DITION	

SPEED (KNTS) DIR.	1.3	4 - 4	7 - 10	11 - 16	17 - 21	22 - 27	30 - 33	34 40	41 - 47	40 - 55	<b>5</b> 56	*	MEAN WIND SPEED
N	1.2	. 4	1.2	1.6								4.3	7.9
NNE	. 4		2.8	. 8								3.9	7.9
NE		, p	5.1	6.7	. 4							13.0	10.5
ENE	. 4	1.6	3.5	6.3	5.1	. 8	4					18.1	13.7
ŧ		. 8	3.5	5.5	4.3	2.4	1.6					18.1	16.2
883	. 4	1.2	2.0	1.6	a B		. 4	4				5.7	13.2
SE		1.2	2.4	2.4	. 4							6.3	10.2
SSE	- 4	1.2	2.4									4.7	7.6
\$\$	. 4		1.6	. 8								2.3	8.9
ssw	4		2.4	. 4								3.1	3.4
sw		1.6	. 8	1.6								3.9	9.4
wsw	8	- 4	1.2	- 4								2.8	6.9
_w	1.2	1.2										2.4	3.5
WNW	1.2											1.2	3.0
NW	8	- 4	2.4	2.0								5.5	8.1
NNW		4	1.6	1.2								3.1	9.6
VARM													
CALM	$>\!\!<$	$\geq \leq$	$\geq <$	$>\!\!<$	$\times$	$>\!\!<$	$\times$	$\geq \!$	$\ge$	$\boxtimes$	$\geq \leq$		
	7.5	11.3	32.7	31.9	11.0	3.1	2-4					100.0	11.3

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODGO1	MAUL OFFICAL SITE HI NORTH TOWER	78-80 YEARS	T C T
		ATHER	0600-0800 HOURS (L.S.T.)
	NOD	DITION	

SPEED (KNTS) DIR.	1 - 3	4+6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	4 - 13	≥#	*	MEAN WIND SPEED
H	- 4	. A	1.6	1.6	. 11							4.8	10.2
NNE		. 4	1.2									2.4	10.2
NE	. 8	A A	6.8	4.4	. 8							13.5	10.0
ENE		2.4	3.6	6.4	5.2	1.2		. 4				19.1	13.8
e i	. 4	. 8	4.0	6.0	3.6	1.2	.8					16.7	13.5
ESE		. 8	2 a D	2.0	1.2	1.2	. 8	. 4				8.4	15.5
SE		1.6	2.0	2.0								5.6	Bal
328	. 4		2.4	2.0								4.8	9.1
\$	. 4	. 3	1.2	1.6								4.0	8.
SSW	. 4	1.6	. 8									2.8	5.4
SW		. 8	2.0	1.2								4.3	9.
wsw	1.2	. 8	1.2									3.2	5.
w	. A B	. 8										1.6	3.1
WHW	A R					T						. 8	2.9
NW			1.6	A B							Ī	2.4	16.
NNW	i	. 4	2.8	2.4								6.0	9.1
VARBL						I					Ī		
CALM	> <	> <	> <	$\supset <$	$\supset <$	$\supset \subset$	$\supset <$	$\supset <$	$\supset <$	$\supset \subset$	$\supset \subset$		
	4	12.7	33.1	30-7	11.6	3.6			-			130.0	

TOTAL NUMBER OF OBSERVATIONS

THE REAL PROPERTY.

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	MAUL OPTICAL SITE HT NORTH TOMER	78-80 YEARS	 OCT MONTH
		THER	 0900-1100 HOURS (L S.T.)
	CONE	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	29 - 33	34 - 46	41 - 47	48 - 55	234	*	MEAN WIND SPEED
N		. ji	1.2	2.4								4.3	10.2
NNE		2.4	2 A B	. 4								5.5	7.
ME		2 . 8	6.3	5.1	. B							15.4	9.
ENE	. 4	. 4	3.1	6.3	2.8	1.2						14.2	13.
Ł		2.0	2.0	4.7	2.8	2.0	1.6	1.2				16.1	17.
ese	. 4	. 4	3.1	2.0	1.2		4					7.5	11.
SE		2 . 8	2 a D	1.2	. 8.							6.7	8.
358		. 8	1.6	1.2	. 8							4.3	11.
\$	1.2	1.6	1.6									5.1	6.
ssw	1.2	. 9	2.0		4							4.3	6.
sw	4	. 4	1.2	. 8								2.8	Ba
wsw	. 4	1.2	. 8									2.4	5.
w	1.2	1.2	. 4								L	3.1	عد.
WNW	A	1.2	. 8								L	2.8	5.
NW		1.2	1.6									3.1	7.
NHW		8	. 8	. 4	. 4							2.4	9.
VARBL													
CALM	><	$>\!\!<$	$\geq \leq$	$\geq \leq$	> <	$\geq \leq$	$\geq \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\geq \leq$	$\geq \leq$	$\times$	$\geq \leq$		
	6.3	20.5	31.1	26 0	0.4	3.1	2.0	1.2				100-0	10

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM U-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE CRISOLETE

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDA)	MAUT OPTICAL SITE HI NORTH TOMER	76-80 YEARS	OCT MONTH
		THER	1238-1400 HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	4 - 15	<b>5</b> 84	*	MEAN WIND SPEED
N		2.4	1.6									4.3	7.1
HNE		1.2	2.0									4.3	7.7
HE		2.4	4.7	3.5								10.6	8.9
ENE		3.1	3.5	6.7	3.9		L		<u> </u>			18.5	12.4
	1.6	2.0	3.1	2.8	4.3	1.6		1.2				16.5	14.7
ese		1.2	1.6	2.0								5.9	10.2
26	1.2	- 4										3.1	7.6
358	1.5	2.0	1.2						L			5.5	6.8
	. 4	3.1										4.7	6.2
SSW		1.0	- 4							<u> </u>	<u> </u>	2.9	8.3
sw	8	1.2	1.6	1.2								4.7	8.3
wsw		3.5	B_			<u> </u>	<u> </u>					5.1	5.8
w		2.0	<u></u>	<u></u>			<u> </u>		<u> </u>	<u> </u>	<u> </u>	2.8	3.9
WNW	-1.2	8	1.6	<u> </u>		ļ		ļ	<u> </u>	<u> </u>	ļ	3.5	5.3
NW		2.0	L	1.2		<u> </u>	ļ					3.9	7.0
HHW		- 8	1.2		- 4			<u> </u>	<u> </u>	<u> </u>		3.5	9.3
VARM												<u> </u>	ļ
CALM	$\geq \leq$												
	10.2	29.5	24.8	21.7	10.2	2.4		1.2				100.0	9.6

OTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OCOD1	MAUL OPTICAL SITE HI NORTH TOWER	78-AO YEARS	DCT MYNOM
	ALL WES	THE?	1500-1700 HOURS (L.S.Y.)
	CONE	ITION	

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	40 - 55	\$11	*	MEAN WIND SPEED
N		. 8	. 4	8								2.3	9.6
NNE			2.0	2.4	. 4							5.2	10.9
NE	. 4	2.0	3.6	4.8								10.8	9.7
ENE	. 4	2.8	4.8	4.4	2.8	. 4						15.5	11.5
1		. 4	4.8	5.4	3.2	2.9	<b>.</b> 8	. 6				19.1	15.7
ESE	. 4	1.6	1.2	1.6	. 4				1			5.2	9.3
SE	1.2	1.6	1.6	. 4						T		4.3	6.5
SSE		1.2	1.2	1.2								3.6	8.8
S		2.0		. 8		1						3.6	7.1
\$5W	. 9	2.8	1.2									5.2	5.7
sw	. 4	2.4	- B	1.2		T						4.8	7.4
WSW	1.2	. 8	. 8			1						2.8	4.9
w	1.6	2.3	1.2									4.3	5.3
WHW	2.1	3.6	. 8			·						6.4	4.4
NW	. 8	- 4	. 4	. 4	i				i			2.3	6.4
HNW	. 8	. 4	2.4	- B								4.4	7.7
VARM					<del> </del>								
CALM	$\times$	$\times$	$\times$	$\times$	$\times$	$\sim$	$\times$	$\geq$	$\geq \leq$	$\times$	$\times$		
	10.4	25.1	27.5	25.5	6.8	1.2						136.3	9.7

OTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL+A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDD1	MAUL OPTICAL SITE HI NORTH TOWER	78-80 YEARS	DCT HTHOM
		ATHER	1800-2000 House (L.S.Y.)
	CON	AVIAN	

SPEED (KNTS) DIR.	1.3	4 - 6	7 • 10	11 - 16	17 - 21	22 - 27	36 - 33	34 - 40	41 - 47	40 - 53	254	*	MEAN WIND SPEED
N	u	2.0	2 a B	3.2								. á . 3	9.5
NNE				2.4	1.6							5.1	13.1
NE			3.6	4.3	2.0							2.3	13.0
ENE	. 4		3.2	7.1	4 . 1	2.0		. 4				17.3	15.3
ţ	. 8	. 8	2.0	5.5	5.1	2.4	. 4	. 9				17.8	16.5
ese	. A B	. 4	2.4	2.4	. 8	. B	. 4					7.9	12.8
SE	4	. 8		. 8	. 8	. 4						4.0	11.2
328			A B									1.2	10.3
\$	1.2	1.2	2.4								L	4.7	5.1
SSW	1.2	3.2	4.1									8.3	6.3
SW	1.2	1.2	1.6	. 8						Ĭ		4.7	6.6
wsw	. 8	. 4										1.2	3.3
W	1.6	. 4										2.0	2.8
WNW	. 8		1.6		ĺ							2.8	7.1
NW	1.2	1.2	. 4									2.8	4.9
NHW	. 4	1.2		. 8								2.4	7.2
VARBL						Ī				1			
CALM	$\geq$	$\boxtimes$	$\geq$	>>	$\geq \leq$	$\supset \subset$	$>\!\!<$	$\times$	$\times$	$\times$	$\boxtimes$		
	11.5	13.1	25.7	28.1	14.2	5.5	1	1.2				120.2	11.6

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CEDD1 STATION	MANI OPTICAL SITE HI NORTH TOWER	78-80 YEARS	OCT MONTH
		ATHER ASS	2130-2300 HOURS (L.S.T.)
	CONE	ITION	

SPEED (KNTS) DIR.	1 - 3	4.4	7 · 10	11 - 16	17 - 21	22 · 27	30 - 33	34 - 40	41 - 47	46 - 55	≥#	*	MEAN WIND SPEED
N		1.6	2.0	1.2				Ì			<u> </u>	5.1	8.2
NNE	1.6	. 8	1.2	1.6	. 8							5.9	9.1
NE			3.1	3.5	1.6							8.3	12.4
ENE	. 4	2.1	5.5	5.5	7.5	2.0				· ·		22.5	14.1
ı		4	2.4	4.3	5.1	4.3	. 4	. 4	. 4	1		17.7	18.5
ESE		. 8	1.2	2.0	1.2			. 4				5.5	13.9
SE	. 4	1.6	1.6	1.2	4.8	A Ř						6.3	13.7
SSE	1.6	1.6	1.2	1.2							1	5.5	6.5
\$	. 8	1.6	. 4	. 8							<del></del>	3.5	6.4
SSW	4	1.6	1.2								<u> </u>	3.1	6.1
SW	. 8	1.2	. 8	2.4								5.1	8.7
wsw	1.2	. 4	1								<del></del>	1.5	2.8
w		. 4											5.0
WNW	1.2	- 4		1.2					1	·		2.8	5.6
NW		2.4									1	2.4	5.0
NHW		1.2	1.6	1.2								3.9	7.9
VARM												1	
CALM	$\geq <$	><	$\supset <$	> <	$\supset \subset$	$\times$	$\times$	$\supset \subset$	$\boxtimes$	$\supset <$	$\supset <$		
	8.7	17.7	22.0	26-0	16.9	7.1	. 4					100.0	11.8

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

Onnoi	MAUL OPTICAL SITE HI NORTH TOMER	78-80	YEARS	DCT MONTH
		THER		HOURE (L.S.T.)
	CONI	ITION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	44 - 55	2#	*	MEAN WIND SPEED
М		1.1	1	1.4	1					1		4.2	9.0
NNE	3	. 9	1.5	1.2	. 4							4.6	9.3
NE	2	1.1	4.7	4.5	7			L				11.2	10.4
ENE	. 3	1.8	3.9	6.7	4.7	1.2	.1	-1				18.6	13.5
	3	1.0	· ·	5.1	4.2	2.4	. 8	. 5		L		17.7	16.1
ESE		9	<u> </u>	2.0		.2	. 3	_ 2				6.8	13.0
u	. 4	1.5	1.7	1.2	3	-1			L			5.3	9.2
226	5_	1.0	1.5	1.0	1						L	4.2	8.2
	5	1.6	1.1						<u> </u>		L	4.0	7.0
\$5W	6_	l.i	1.6	2_					<u> </u>	<u> </u>	<u></u>	4.3	646
SW	5	1.3	1.4	1.3						<u> </u>	<u></u>	4.5	8.5
WSW	8	1.0				<u> </u>			<u> </u>			2.6	5.3
w		1.1	2							<u> </u>		2.3	443
WNW	_1_1_	. 3	6	2						<u> </u>	<u> </u>	2.9	5.3
HW	5	1.3	1.0	6					<u> </u>			3.5	7.0
HHW	2		1.3	1.1							<u> </u>	3.6	9.0
VARM												L	
CALM	$\geq \leq$	$\times$	$\geq \leq$										
	R.l.	15.9	מ א ב	27.6	11.3	N . O	1.2					10,1.0	10.9

TOTAL NUMBER OF OSSERVATIONS 2026

USAFETAC FORM 0-8-5 (OL+A) FREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOGD1	MAUL OPTICAL SITE HT MORTH TOHER		NOV MONTH
		ATHER ASS	1008-0288 HOURS (L.S.T.)
	1402	DITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	27 33	34 - 40	41 - 47	44 - 55	254	*	MEAN WIND SPEED
N	_1.1	2.9	6									4.5	4.9
NNE	2.3	1.7	2.3	- 6								6.9	6.3
NE	- 6	1.1	1.7	4.0	2.3							9.7	12.4
ENE		1.7		5.7	2.9		. 6					10.9	14.3
		5	4.0	2.9	2.9	2.9						13.1	15.5
ESE		1.1	- 6	4.6	1.7	1.1						9.1	14.6
SE				iel								1.1	13.5
SSE	_lal_		1.7	2.9	<u> </u>	6_						7.4	12.0
	1.1	6	1.7	1.1	-6-	1.1					<u> </u>	6.3	11.2
SSW		1.7	1.7	1.7						<u></u>		5.1	8.7
\$W	<b></b>	1.1	1.1	3.9	- 6				<u> </u>	<u> </u>		6.3	11.3
wsw		6	<u> </u>		- 6	- 46	-6					2.3	18.8
w	1.1	1.1	1.1	<u> </u>								3.4	5.3
'wnw		2.3	2.3		<u> </u>		<u> </u>					5.1	7.3
NW	1.1	-6	2.3		<u> </u>		<u> </u>					4.7	6.7
HHW	1.7	-6	1.7	- 6		ļ						4.5	6.1
VARM			<u></u>		L	L	<u> </u>			<u></u>			
CALM	$\geq \leq$												
	12.3	17.7	22.0	29.1	12.6	6.3	1.1					120-0	11.2

TOTAL NUMBER OF CASERYATIONS

> NW NNW VARBL

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION			STATIO	N NAME					Y	EARS			<del></del>	IONTH
		-				ALL NE	AIHER							-0500 18 (L.S.T.)
		_				CON	DITION							
	SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	26 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
	N	. 6	1.1	2.3	1.7								5.7	8.6
	NNE		. 6	1.7	1.1	1.1							4.5	12.0
	NE		. 6	4.6	3.4	2.3							10.9	11.5
	ENE	. 6	. 6	3.4	3.4	2.9							10.9	12.1
	ŧ	1.1	. 6	1.1	5.2	. 6	2.9						11.5	14.0
	ESE			1.7	1.1	2.3	2.3	1.7		L			9.2	19.6
	SE			. 6	1.1	. 6	.6						2.9	15.2
	SSE	. 6			4.0	- 6	1.1	1.1					7.5	16.6
	S	- 6		. 6	1.1		- 6						2.9	12.8
	SSW	. 5	1.7	2.3		6							5.7	8.6
j	sw	. 5	1.7	2.3	3.4	1.1							9.2	10.4
	WSW	. 6	_1.1	2.3	1.1								5.2	7.8

TOTAL NUMBER OF OBSERVATIONS

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

C TOOL	MAUI OPTICAL SITE HI NORTH TOMER		N ( V MONTH
		ATHER	0630-0830 HOURS (LIST.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
н	6		. 6	_ 6	- 6							2.3	10.5
NNE	5	1.2	1.7	2.3	L							5.8	8.8
NE		1.7	2.9	2.9	1.7							9.2	11.3
ENE		2.3	2.3	4.6	1.7							11.3	11.0
ŧ		2.9	3.5	2.3	.6	1.7		. 6				11.6	13.1
ESE	6	6	1.7	1.2	2.3	2.9	. 6					9.3	16.8
SE				3.5			1.2					4.6	17.1
SSE		- 6	2.3		. 6	1.2	. 6					5.2	16.1
5		1.2	1.2	1.2			. 6					4.3	12.0
SSW	5	. 5	1.2	1.2	-6		- 6					4.6	12.3
sw	2.3	1.7	3.5	2.9	.6				L			11.0	7.9
WSW	1.7		. 5	1.2								3.5	7.5
w	1.2	1.2		. 6	<u></u>							2.9	5.4
WNW	1.2	2.3	. 6		L							4.7	5.1
NW	5	1.2	2.9	6	1.2	-6			Ĺ			6.9	أملدا
NNW	- 6	1.7	-6		Ĺ	6						3.5	7.5
VAPSL													
CALM	><	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\times$	$\times$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	9 - B		1	24.9	9.8	6.0	3.5	. 6				170.0	11.

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SECTION STATION	MAUT OPTICAL STE HI NGRIH TOWER	77-79	NO V MONTH
	ALL WE	ATHER	0900-1100 HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 . 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	5	. 6	1.1									2.3	5.3
NNE		. 6		1.7						l		2.3	12.0
NE	. 6	1.1	2.3	1.7	. 6							6.3	9.8
ENE		1.1	2.9	5.1	2.9							12.0	12.8
8	. 6	• 6	1.1	2.3	4.5	. 6	<u> </u>	. 5				6.3	14.
ESE	5	2.3	1.1	2.3	2.3	1.7			i				13.
SE		1.7	1.7	4.0	1.7	.6							12.
SSE		2.3	1.7	1.1	1.1	.6	1.1						13.
5	. 5		2.3	- 6			1.5					4.0	11.
ssw		2.3	.6	1.7								4.6	8.
sw		2.9	2.3	1.7								6.9	8.
wsw	- 46	2.3	1.7	1.7								6.3	7.
w													
WNW	1.1	7.4	- 6									5.1	4.
NW	1.7	2.3	1.7	- 6	1.7							8.0	8.
NNW	2.3	1.7	3.4	- 6								8.0	5.
VARBL		<b></b>		<b>_</b> _		<b>†</b>			<u> </u>	t	<b> </b>		
CALM	> <	> <	$\overline{}$	> <	$\supset \subset$	$\supset \subset$	> <	><	> <	> <			
	3.6	75,	24.6	25 1	10.9	3.4	1.7				<del></del>	100.0	

TOTAL NUMBER OF OBSERVATIONS

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDII	MANI OPIICAL SITE HI NORTH TOWER		NOV MONTH
	ALL WEA	ATHER	1200-1400 HOURS (L.S.T.)
	CONE	DITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
×		6										. 6	6.0
NNE	6_		1.1	1.7								3.3	9.7
NE	- 6	2.8	1.7	1.7	-6	1.1			<u> </u>		<u> </u>	8.3	10.8
ENE	1.1	1.1	3.3	2.2	2.2							9.9	10.2
ŧ	- 6	2.2		2.2	1.7		1.1					7.7	13.6
ESE		- 6	1.1	3.3	_6		. 6					6.1	13.5
SE		2.2	2.8	1.7	4.4	- 6	1.1					12.7	14.4
SSE	6	1.7		3.3		6_						6.1	11.1
<u> </u>		5_	. 6	1.1	1.7	1.1						5.0	15.4
SSW	- 6	-6	1.7	6_	- 6					<u> </u>		3.9	8.7
SW	- 5	2.8	1.7	1.1	2.2				<u> </u>	<u> </u>	<u> </u>	_6_3_	10.3
wsw	2.2	1.7	-6	6_								5.0	2.3
w	1.7	2.2	_1.1_	ļ								5.0	4.7
WNW	3.3	3.3									<u></u>	7.7	4.4
NW	3.3	2.2		-6	6_				<u> </u>			6.6	5.7
NNW	5_	1.7		ļ	1.7					<u> </u>		3.9	10.1
VARBL		<u></u>		<u> </u>				<u> </u>	<u></u>		<u></u>	<u> </u>	
CALM	$\geq \leq$	$\times$	$\geq \leq$										
	15.5	26.0	16.6	19.9	16.0	3.3	2.8					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OSSERVATIONS)

00.101	MAUL OPTICA	L SITE HI NORT	H TONES	77-79				 N	0 V
STATION		STATION NAME			Ψ	EARS		<u> </u>	IONTH
	_		ALL NE	ATHER			_	1530	-1700
			Cı	.A88				HOUR	S (L.S.T.)
	-								
			CON	DITION					
	-								
_								 	·

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	44 - 55	≥34	*	MEAN WIND SPEED
7		. 5		- 5								1.1	7.5
NNE	5		2.2	5_								3.3	7.8
ME	5_	5	1.6	2.2	2.2							7.1	12.0
ENK	. 5	. 5_	1.6	6.0	1.1		. 5					10.4	13.3
E.	. 5	1.1	3.3	3.3	3.3		1.1	. 5				13.2	14.8
ESE	. 5	- 5	. 5	. 5	1.6	1.1						4.9	15.0
SE	1.1	2.2	2.7	3.3	1.1	. 5						11.0	10.2
SSE	- 5	1.6	3.3	. 5	- 5		.5_					7.1	10.1
S		5.	1.1	. 5_	.5	- 5						3.3	12.8
SSW	. 5	1.1	1.6	1.1		. 5						4.4	9.6
_ sw	1.5	2.2	1.1	2.2	1.:	- 5						8.8	9.6
WSW		1.6		.5	5.5							2.7	9.2
w	- 5	1.6	1.6									3.8	6.6
WNW	2.2	1.6	1.6	. 5	I							6.0	6.5
NW		3.3	1.6		. 5							5.5	7.5
NNW	2.7	1.1	1.6	1.1								6.6	5.4
VARBL													
CALM	$\ge$	$\ge$	$\geq$	$\geq \leq$	$\boxtimes$	$\boxtimes$	$\geq$	$\geq$	$\boxtimes$	$\geq$	$\boxtimes$		
	12.1	20.3		27.1	12.6	3.3	2.2	- 5				100.0	10.5

TOTAL NUMBER OF OBSERVATIONS

C

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OCCUPATION STATION	MAUI OPTICAL SITE HI NORTH TONER	77-79 YEARS	NOV MONTH					
	ALL MEATHER CLASS							
	CON	PITION						

SPEED (KNYS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	40 - 55	≥54	*	MEAN WIND SPEED
н	5		1.1	- 5_								2.2	7.3
NNE	. 5	- 5	1.1		. 5							2.7	8.4
NE	5_	5	3.3	2.7	1.6	.5						9.3	11.2
EME		. 5	4.9	3.3	2.7	1.6	2.2		l			15.4	16.1
ŧ		. 5	2.7	6.0	1.6	1.1					i	12.1	13.5
ESE	5		1.1	1.1	1.1	L						3.8	12.9
SE		1.6	2.7	2.2	1.1	. 5						8.2	11.5
SSE		1.1	2.2	. 5						L		3.8	8.4
S	2.7	1.1	. 5	2.7	. 5							7.1	9.3
\$\$W	1.1	1.6		1.1	. 5	5						4.9	10.9
sw	5	1.6	2.2	1.1		. 5	5					6.6	11.4
W\$W	. 5		1.1		. 5							2.2	9.8
w	1.1	5_	2.2									3.8	6.1
WNW	1.6	1.1.6	1.6						l			4.9	5.4
NW	2.2	2.2	3.3	1.6								7.3	6.8
MMM	5	1.1	1.6				I					3.3	6.2
VARBL									I				
CALM	$\geq \leq$	$\times$	$\geq$	$\boxtimes$	$\ge $	$\geq$	$\geq$	$\geq \leq$	$\times$	$\geq$	$\geq \leq$		
	12.1	14.8	31.9	23.1	10-4	4.0	2.7			I	1	100.0	10.8

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO1	MAUL OPTICAL SITE HT NORTH TOWER	77-79 YEARS	MONTH
		ATHER	2100-230B HOURS (4.8.T.)
	CONI	DITION	

SPEED (KNTS) DIR,	1.3	4.4	7 - 10	11 - 16	17 - 26	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	256	*	MEAN WIND SPEED
N		- 6	1.7	-6								3.3	7.8
NNE	L	2.2	2.2				Ĺ					4.4	6.3
NE	1.1	1.1	1.1	3.3	1.7							8.3	11.5
5145		2.2	7.2	4.4	2.2	2.8						18.8	12.7
ŧ		1.1	2.2	2.8	1.7	2.2	- 6					10.5	16.3
ESE		1.1	. 6	1.7	3.3	l				Ĭ .		6.5	13.9
SE		- 6	1.1	3.3	5	6						6.1	12.4
SSE		1.1	2.2	6								3.9	7.9
5	1.1		1.7	. 6	1.1							4.4	10.4
SSW	. 5	1.7	1.7		-6	6	- 6					5.5	11.9
sw	1.1	2.2	1.1		1.1							5.5	8.3
W\$W	. 5	1.1	1.7	1.1		1.1						5.5	11.6
W	1.1	7.2		- 6								3.9	5.0
WNW	1.1	7	2.2						<u> </u>			5.0	5.4
NW	1.7	- 6	1.7	. 6								4.4	6.1
NHW	. 6	1.7	1.7									3.9	5.4
VARBL								1	Ĭ				
CALM	$\geq \leq$	$\geq <$	$\geq \leq$	><	$\boxtimes$	><	$\times$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\supset <$		
A	0.4	21.1		19.3	12.2	7.2	1.1				•	120-2	10.7

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODOL	HAUT OPTICAL SITE HT NORTH TOMER	77-79 YEARS	MONTH
		ATHER	HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥#	*	MEAN WIND SPEED
N	. 5	. 8	- 9	5	.1							2.7	7.4
NNE	6	■ B	1.5	1.0	. 2							4.1	8.6
NE	£	1.2	2.4	2.7	1.6	2			I			8.6	11.4
ENE	3	1.3	3.2	4.4	2.3	. 6	4					12.4	13.0
ŧ	. 4	1.2	2.2	3.4	1.6	1.4	. 4	. 2				10.3	14.4
ESE	3	. 8	1.1	2.0	1.9	1.1	. 4					7.4	15.3
SE	1	1.1	1.5	2.5	1.2	- 4	3					7.1	12.9
SSE	. 4	1.1	1.7	1.6	. 5	. 5	. 4					6.1	12.4
\$	. 7	. 5	1.2	1.1	. 6	4	.1					4.6	تمتدا
SSW	_ 5	1.4	1.3	1.0	. 4	. 2	1					4.9	9.8
sw	R	2.1	1.9	2.0	. 8	1	.1					7.8	9.6
wsw		1.1	1.0	8	.2	2						4.1	9.1
w	1.0_	141	1.1	-1								3.3	5.
WNW	1.4	2.2	1.3	4						<u> </u>		5.3	6.1
NW	1.3	1.7	1.9	- 5	- 5							6.0	7.6
NHW	1.3	1.3	1.3	- 4	. 2	-1						4.6	6.5
VARBL											L		
CALM	$\geq \leq$	$\geq <$	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\geq \leq$	$\geq \leq$						
	10.8	19.4	25.6	24.3	12.1	5.4	2.2	.2				100-0	T

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

C_1011	HAUI OPTICAL SITE HI NORTH TOWER	77-79 YEARS	DEC MONTH
		ATHER	2800-0200 HOURS (L.S.T.)
	CONE	DITION	

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	40 - 55	≥36	*	MEAN WIND SPEED
N	2.0	, a	4	1.6	1.5	1.2	. 4					7.9	13.C
HHE	. 8	4	2.0	. 8	. 8	1.2	4	. 8				7.1	16.6
HE	. 8	4	2.0	. 8	1.2	. 4	8					6.3	14.1
ENE	. 3	. 8	5.1	6.7	3.9	2.8	. 4	. 4				20.9	14.7
ę.	. 4	. 4	2.0	3.1	1.6	8	9	4	. 4			9.4	16.3
ESE		- 4		2.4	1.2							3.9	12.9
SE		. 4	1.6	2.0		1.2						5.1	12.5
SSE	1.2	2.0	. 8	1.6								5.5	7.6
8		2.0	. 4	1.2								3.5	7.8
SSW		1.6	1.2	. 8	. 4	4						4,3	10.6
SW	. 4	1.2	2.0	2.0	1.6							7.1	11.4
wsw	. 8	. 4	1.2		A B							3.1	9.1
w	. 8	. 9	. 4	. 6	. 4							3.1	8.6
WNW			- 8	1.2	. 4							2.4	12.3
NW	. 4	1.2	1.6	. 8		- 8						4.7	10.7
NHW	. 4	. 4	1.2	2.0	. 4	. 8	. 4					5.5	13.8
VARM													
CALM	><	$\supset \subset$	$\overline{}$	$\overline{}$	$\supset \subset$	$\supset <$	> <	$\supset \subset$	$\supset <$	$\supset <$	> <		
		13.0	22 4	27 (	2	0.4	2.8	1.6				100.0	12.5

TOTAL NUMBER OF OBSERVATIONS

2

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

Onnni Station	MANI OPTICAL SITE HI NORTH TOMER		DEC
		ATHER	0300-0500 HOURS (L S.T.)
	CONE	DITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
И		. 4	1.6	4	1.2	1.6	. 4					5.6	17.1
NNE	. 4	4		. 4	1.2	- 8	. 4	. 4				4.0	19.
NE		. 8	3.6	4.0	2.4	. 4	. 8	- 8				12.7	15.5
ENE		. 4	3.6	6.4	2.8	2.0	. 4	. 4				15.9	15.
E	. 4	1.6	3.2	1.6	2.8	8	. 4	. 4				11.2	14.
ESE	. 4	. 4	1.6	. 4	1.6							4.4	11.
SE			4.4	2.0								6.4	9.
SSE		1.6	. 8	1.6								4.0	- 9.
S	. 8	3	1.2	. 4								3.2	6.
SSW	1.2	8	2.4	. 8								5.2	7.
sw	. 4	2.4	1.6	1.2	. 4	. 4						6.4	8.
WSW	. 9	. 8	. 8	. 8	. 4							3.5	9.
w		. 4	. 9	. 8	. 4							2.4	11.
WNW	. 4	1.6	. 8	. 4								3.2	5.
NW		-	1.2	2.0	3	. 4	. u				· · · · · · · · · · · · · · · · · · ·	4.4	14.
HNW	1.6	. 8	1.6	2.4	. 4	. 9						7.6	10.
VARBL												1	
CALM	><	$\times$	$\times$	> <	$\times$	$\times$	$\times$	$\times$	X	$\times$	> <		
	4 1	13.1	I	25.5	17 0	7.2	2.0	2.0			·	100.2	12.

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODD1	MANU OPTICAL SITE HI NORTH TOWER	77-79 YEARS	DEC MONTH
	ALL WEA	THER	0600-0800 HOURE (L.S.T.)
	COND	ITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
Z	. 4	. 4	1.5	1.6	4	. 4		. 4				5.2	14.1
NHE			. 8	2.4	1.2		1.5	. 8				6.9	20.7
NE		. 4	В	2.4	2.0	1.2	1.2	4				8.5	18.9
ENE	. 4		3.6	8.1	3.6	. 4		. 4				16.5	14.4
E	. 4	2.0	2.0	4.0	. 4	2.0	- 4		4	<u></u>		11.7	14.5
ESE	. 4	. 4	2.4	2.8	. 8	. 9			<u> </u>			7.7	12.3
SE		<u> </u>	2.4	1.6								4.8	9.3
SSE	, 4		2.4	. 8								3.6	8.9
S			8_	. 8	- 4	4						2.4	14.5
SSW	. 4	1.2	- 4	4				. 8				3.2	14.3
sw		2.4	3.6	2.0	. 4	- 4		<u> </u>				8.9	10.0
wsw !	3.2	1.2	1.2	. 4				L				6.0	4.9
W		4	-8-	B	<u> </u>							7	10.8
WNW	8		<u> </u>	2.0		ļ	<u> </u>	ļ	ļ			2.8	10.1
NW		. 4	. 4	8-	<u> </u>	. 4		<u> </u>				2.0	12.8
NHW	<u> </u>	- 8	2.7	2.0	1.6	1.2		ļ	L	ļ		7.7	13.8
VARBL	<u> </u>	L			Ļ,	ļ ,	Ļ.,	Ļ		Ļ		<b></b>	ļ
CALM	><	><	><	><	><	><	><	><	$>\!\!<$	> <	$>\!\!<$	<u> </u>	
	4 5	10.5	25.4	77.1	100	7.3	3.2	2.8	. 4				13.

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

THE WAR

### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUT OPTICAL SITE HI NORTH TOWER ... 17-79

					ALL WE	ATHER							-110[
	-				CON	DITION				_			
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEA WIN SPEE
N		. 4	1.2	2.4	B	2.0.		. 8		<del></del>		7.8	17.
NNE	1.6	1.2	a B	2.0	. 8	1.2	. 4	. 4		-	·	8.6	13.
NE	. 8	1.2	1.6		. 8	1.6	. 8					6.9	15.
ENE	. 8	. 8	1.2	5.7	2.4	1.2	. 4					12.7	14.
ŧ		2.9	1.2	1.6	. 8	1.6	8					9.0	14.
ESE	. 4	. 4	. 8	2.0	2.0	1.2						6.9	15.
SE	. 8		3.7	2.9								7.3	9,
SSE	4	1.6	1.5	1.2	. 4	. 4						5.7	10.
5			. 4	8	1.2	. 8						3.3	18.
SSW		. 4	2.9	. 4		. 4			. 4			4.5	13.
SW	1.5	. 8	2.4	1.2	1.2							7.3	9.
WSW		. 4	1.2	. 4								2.0	9.
w	8_	. 4	. 8	1.2		<u></u>			<u> </u>			3.3	7.
WNW	-8		- 8	1.6		<u></u>				<u> </u>		3.3	9.
NW	- 4	- 4	1.2	1.6								3.7	ىعا
NNW	1.2	1.2	1.6	1.2	8	1.6				1 .	İ	7.8	12.

TOTAL NUMBER OF OBSERVATIONS 245

SLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MA"

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATION\*)

CITION STATION	MAUL OPTICAL SITE HI NORTH TONER	77-79	DEC MONTH
	ALL WEA	THER	1200-1400 HOURS (L.S.Y.)
	CONT	ITION	

SPEED (XNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	49 - 55	≥54	*	MEAN WIND SPEED
N	3	. 4	. 8	2.5	- 3	2.1		- 3				7.9	17.7
HHE	1.2	_ s B_	2.1	. 4		1.2	. 9	- 4				7.1	14.4
NE		. 8	3.3	1.2	2.1							7.5	11.7
EME	4	. 8	. 8	4.6	4.6	1.7				. 4		13.3	16.6
l l		1.7	2.1	1.7	. 8	1.7						7.9	13.6
ESE		. 4	1.2	1.2	. 8	2.1		. 4				6.2	18.4
SE	. 4	1.2	1.7	2.9								6.2	9.9
358	3	1.2	1.2	2.1	. 9							5.8	10.2
S	1.2			. 4	. 4							2.1	8.6
SSW			3.3	1.7	. 4							5.4	10.5
sw		4	4	2.5	2.5							6.2	13.
wsw		i	8	. 4								2.1	6.4
w		1.2	1.2									2.9	7.0
WNW	4	1.2	8	. 4	4							3.3	8.0
NW	1.2	2.1	. 9	1.2	. 9	. 4						6.6	9.0
HHW	. 4	1.2	2.9	3.7	1.2							9.5	11.
VARM													
CALM	> <	$\geq$	$\geq <$	$\boxtimes$	$\geq$	$\geq$	$\times$	$\ge$	$\boxtimes$	$\boxtimes$	$\geq \leq$		
	7.5	13.7	23.7	27.4	15.8	9.1		1.7		u		100-7	12.0

TOTAL NUMBER OF DESERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

CHEST VALUE

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00001	MAUL OPTICAL SITE HI NORTH TOMER	_77-79	DEC
STATION	STATION NAME	YEARS	MONTH
	ALL WEA	THER	1533-1700
	GL	A44	HOURS (L.S.T.)
	CONE	ITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	49 - 55	≥\$4	*	MEAN WIND SPEED
N		- 3	2.5	1.6	1.2	1.6	1.6	. 4				10.3	17.4
NHE	. 4	2.1	. 8	. 8	1.2		. 4	. 8				5.6	14.3
NE	. 8	1.2	1.2	1.2	. 8	1.2	. 4		. 4			7.4	14.8
ENE	. 4	1.2	2.9	4.1	3.7	1.6	. 8					14.8	15.3
E	. 4	. 8		2.9	1.6	4	. 8		. 4			7.4	17.0
ESE		4	. 8	. 4	4	2.5						4.5	17.9
SE	. 4	1.6	2.:	. 4	. 4							4.9	7.9
SSE	. 4	- 6	1.6	1.6	. 4							4.9	10.0
S	. 4			4							<u> </u>	. 8	8.5
SSW	. 4	. 8	1.2		. 4							2.9	7.6
\$W	8	. 8	1.2	2.9	. 4		1.2					7.4	13.6
WSW		1.2	2.5	. 9	. 8							5.3	9.6
w	.8	- 4	1.2	- 4								2.9	6.5
WNW		1.6	1.6	. 8	- 4				<u></u>	<u> </u>		4.9	8.3
NW	1.2	2.1	- 8	2.1	1.2		<u> </u>					7.4	9.4
NNW	4_	. 8	-4	2.9	1.2	1.2	4					7.4	15.2
VARBL													
CALM		$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		<u> </u>
	7 ,	1	21.0			8.6	5.8	1.2	8			100.0	13.3

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00001	MAHT OPTICAL SITE HT NORTH TOWER		
STATION	STATION NAME	YEARS	MONTH
	ALL_WE	ATHER	1830-2000
	CI	.A56	HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥\$4	*	MEAH WIND SPEED
N	ų	1.6	8	2.4		3.2	. 4	- 4				9.2	16.8
NNE	. 4	. 8	2.0	4.4		2.4	. 8	1.2				12.0	17.2
NE	_ 4	. 8	2.0	2.8	2.4	. 8						9.2	13.8
ENE	. 4	1.2	2.4	2.4	3.2	2.4	. 4		1			12.4	15.2
ŧ	. 4	. 4	2.0	3.6	1.2	1.2	. 8	. 8				10.4	16.7
ESE		4	. B	1.2	. 4	2.0		. 4	. 4			5.6	19.7
\$.E	. 4	. 4	. 4	1.2	. 8							3.2	12.5
SSE		1.2		3.2								4.4	10.9
\$	- 4		. 4	a B	. 4							2.0	10.6
SSW	. 4		. 8		. 8							2.0	11.2
SW	1.2	- 4	1.6	. 8		1.2					Γ	5.2	11.1
WSW	4	. 9	1.2	3.6				<u> </u>				6.0	10.9
w	. 8	. 8	2.0	1.2						1		4.8	7.5
WNW	1 .4	1.2	. 4	1.2								3.2	8.3
NW		. 4	1.2	2.0	- 4	. 4						4.4	12.1
NNW	- 4	2.0		1.2	1.2	. 4	. 4	1				5.6	12.9
VARBL	1							1					1
CALM	$\geq$	$\geq$	$\geq \leq$	$\geq$	$\geq \leq$	$\geq$	$\geq \leq$	$\geq$	$\geq \leq$	$\times$	$\geq \leq$		
	6.4	12.4	18.1	32.1	[	14.1	2.8	2 . R				100-0	14.1

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODOD1	MAUL OPTICAL SITE HI NORTH TOWER	77-79 YEARS	DEC
		ATHER	2100-2300 HOURS (L.S.Y.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	<b>46</b> · 55	£#	*	MEAN WIND SPEP
М	. 4	4	1.6	1.2	1.2	1.2						5 . 8	14.1
NNE	1.6	4	1.9	2.7	1.9	2.3	1.2	. 4	I			12.5	16.3
NE	3		1.6	2.3	1.2	1.2		1.6				G . 2	19.1
ENE		. 8	3.1	5.1	2.7	1.2	. 4	1.2				14.4	16.0
E		1.9	1.2	3.5	1.6	1.6	1.2	1.2	. 4			12.8	17.6
ESE		. 4	. 4	1.9	1.9	. 4					<u> </u>	5.1	15.2
SE			1.6	1.2	. 8				1			3.5	12.8
SSE		- 4	. 8	1.9								3.1	11.0
8		. 4		. 4	.4							1.2	11.3
SSW	. 4	1.2	- 4									2.7	6.
SW		1.2	1.9	3.5	- 8			l				7.4	11.
wsw	. 4	1.6	1.9	1.9	. 8			<del> </del>			<del>                                     </del>	6.6	9
w	. 8	1.6	- 8	.8		<u> </u>					<del> </del>	3.9	6.0
WNW	. 8		. 4	-	- 4	!						1.6	7.
NW	. 9	1.6	. 4	1.6	1.2				-		· · · · · · · · · · · · · · · · · · ·	5.4	10.
NNW		- 8	1.2	1.2	1.2	<b>†</b>	4.8			<del>                                     </del>		5.8	13.3
VARBL		•		<b>'</b>	111	<del> </del>	•	<b></b>	·	<del> </del>		-348	1303
CALM	$\geq \leq$	$\times$	$\times$	$\times$	$\times$	>>	$\sim$	$\geq$	$\supset$	$\times$	$\geq$		
	6.6	12.5	19.1	30.0	16.0	7.8	3.5	4.3				100.0	14

TOTAL NUMBER OF DESERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODBOI STATION	MAUL OPTICAL SITE HI NORTH TOWER		DEC DENTH
	ALL Y	FATHER CLASS	ALL HOURS (L.S.T.)
		ONDITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	1> - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
×	. 5	.7.	1.3	1.7	. 9	1.7	. 4	. 4				7.4	16.1
NNE	. 8	. 8	1.3	1.8	. 9	1.2	.8_	• 7				8.1	16.4
NE	. 4	7	2.0	1.9	1.6	. 9	. 5	4	1			8.4	15.5
EHE	. 4	. 8	2.9	5.4	3.4	1.7	. 4	. 3	F	• 1		15.1	15.2
E	. 3	1.5	1.7	2.8	1.4	1.3	.6	. 4	. 2			10.0	15.6
ESE	2	. 4	1.0	1.6	1.2	1.1		1	1			5.5	15.5
SE	. 3	- 6	2.2	1.8	- 3	• 2						5.2	10.2
SSE	. 4	1.1	1.2	1.8	. 2	- 1						4.6	9.7
S	4	. 4	. 4	.7	. 4	.2						2.3	10.5
SSW	4	• 8	1.6	. 6	- 3	. 1		. 1	- 1			3.8	10.3
sw	6	1.2	1.9	2.0	. 9	. 3	.2					7.0	11.
wsw	. 8	. 3	1.4	1.1	. 4							4.4	8.
w	- 5	. 8	1.0	. 8	- 1							3.2	8.1
WNW	. 5	. 7	. 7	1.0	. 2							3.1	8.
NW	. 5	1.0	1.0	1.5	. 5	3	.1					4.8	10.
NHW	. 7	1.0	1.4	2.1	1.0	. 8	. 3					7.1	12.
VARBL									·				
CALM	$\times$	$\supset \subset$	$\geq \leq$	$\geq$	$\boxtimes$	$\geq \leq$	$\ge$	$\geq \leq$	$\geq$	$\boxtimes$	$\supset \subset$		
	7.4	13.0		28.2	13.4	9.5	3.0	2.2				100.0	134

TOTAL NI	JAMBER OF	OBSERVATIONS	1988
			1988_

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO1	MAUL OPTICAL SITE HI NORTH TOWER	77-80 YEARS	ALL MONTH
		LTHER ASS	ALL HOURS (L.S.T.)
	COME	DITION	

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	20 - 33	34 - 40	41 • 47	48 - 55	≥34	*	MEAN WIND SPEED
N	. 4	1.0	1.2	1.1	. 3	. 3	- 1	1				4.4	10.7
NNE	. 4	1.2	1.8	1.4	. 4	.2		.1				5.6	10.4
NE	3	1.3	3.7	3.9	1.4	. 4	-1		• 1			11.1	11.6
ENE	. 3	1.5	4.8	6.4	3.1	1.2	.2			.0	•0	17.7	13.1
ŧ	. 3	1.2	2.9	4.3	2.5	1.6	4	. 2	. 3	n D		13.5	14.5
ESE	. 3	8	1.6	2.0	1.2	. 8	1		- 2			6.7	13.6
SE	. 7	1.0	1.4	1.4	. 5	. 3	-1	.0				5.0	10.9
\$.; <b>e</b>	. 4	9	1.1	1.0	. 3	.1	٠	1_	_ د .			3.3	10.5
S	4	. 7	. 7	6	. 3	.2		.0				2.9	10.7
SSW	4	-8	.7	.5	3	. 3		.1		.0		3.2	11.4
sw	5	1.0	1.2	1.3	. 8	. 5	.2	الما	. 0			5.6	12.5
WSW	6	. 8	. 7	. 7	. 3	1_	.1	. 3				3.2	9.7
w	. 8	1.1	. 7	.5	. 2	.1	ຳ	n		<u> </u>		3.5	7.7
WNW	3	1.2	. 9	. 6	.2	- 1		0				3.8	7.7
NW	. 8	1.4	1.4	1.0	. 5	. 3	.1	.0			L	5.5	9.7
NHW	. 5	1.0	1.3	1.1	. 3	. 2	0					4.5	9.6
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\times$	$\times$	$\geq \leq$	$\boxtimes$	$\ge$	$\geq \leq$	$\geq \leq$	•0	
	7.5	16.9	26.1	27.7	12.7	6.5	1.3.	. 8	.1	, n	_n	130.3	11.7

TOTAL NUMBER OF OBSERVATIONS 19385

U S AIR FORCE BIVIRODICHTAL TRCHETCAL APPLICATIONS CENTER

#### PART E

### PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and vet-bulb temperatures, dev points, and relative bunidity. The order and manner of presentations follows:

- 1. Commutative percentage frequency of occurrence derived from daily observations and presented by month and essent for all years combined. These tabulations provide the cumulative percentage frequency to teache of temperature by 5-degree Fahrenheit instemnets, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperatures
    b. Daily minimum temperatures

  - e. Daily mean temperatures

MOTE: Beginning in Jamuary 1964, daily maximum and minimum temperatures are routinely selected from bourly observations recorded on surface observing forms or from automated data collections for all Air Porce operated stations. For those stations observing less than 24 hours per day, and where maximum personnels. mus and minimus temperatures are required but not recorded, these are also selected from hourly data from as early as Jamuary 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

- 2. Extreme values derived from daily observations with the extreme value selected for each year and month of record available. As samual (ALL MONTES) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepayed:
  - NOTE: Direct conversion of tamperatures from Celsius to Fahrenheit values
  - Extreme maximum temperature at OL A to present these data may result in differences not exceeding + 1 from directly converted values but excludes no Fahrenheit values.

NOTE: The following symbols are used in the extreme data blooks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the mouth.

Continued on Reverse

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1. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.
This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

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- a. The main body of the summary consists of a bivariate percentage frequency distribution of vet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and vet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dev-point temperatures separately. Total observations for these feur items is also provided in two lines at end of each tabulation table, which may be continued on several pages.
  - MOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.
- b. Statistical data for the individual elements of relative humidity, dry-bulb, vet-bulb, and dev-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares  $(LX^2)$ , sums of values (LX), means (X), and standard deviations  $(\sigma_X)$ . The number of observations used in the computation for each element is also shown.
- c. At the lover right of the form are given the ween number of hours of occurrence for eix ranges of dry-bulb, vet-bulb, and dev-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.
  - NOTE: Vet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dev-point temperature and relative humidity are with respect to water, unless otherwise indicated.
- A. House and standard deviations These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and samual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-MULB TEMPERATURE, WET-MULB TEMPERATURE, and DEM-POINT TEMPERATURE.
- 5. Cumulative percentage frequency of occurrence of relative humidity This summary is derived from hourly observations and presents the sumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - Fable ? is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

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GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 PAGE 1 0000-0200 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 50/ 49 48/ 47 45/ 45 1.2 3.7 44/ 43 2.4 1.2 6.1 1.2 4.914.6 3.7 9.8 1.2 42/ 41 17 20 40/ 39 6.1 4.9 38/ 37 1.2 2.4 3.7 3.7 18 3.7 35/ 35 1.2 33 1.2 327 31 70! 29 1.2 1.2 28/ 27 25/ 25 24/ 23 22/ 21 20/ 19 16/ 15 14/ 13 12/ 11 9 87 4/ 07 -1 -4/ -6/ -R/ -9 -10/-11 -12/-13 -14/-15 -16/-17 -22/-23 -24/-25 Element (X) No. Obs. Mean No. of Hours with Temporature G G USAFETAC 267 F 273 F 280 F 293 F Rel. Hum. 1 32 F Dry Butb Wet Bulb Dew Point

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	USAFETAC AIR WEAT		SERV	ICE/	MAC						•				P	SYC	HR	ON	NETRI	C S	UMN	۱A
	00001	MA	ul 0	PTIC	AL S	ITE	HIN	IORTH	TOP	ER	78-	80			YE	ARS						AN
					•										1				PAG	E 2	DODD HOURS I	-03
	Temp. (F)	Ú	1 - 2	3 · 4	5.4	7.8	WE1	BULB	TEMPE	ATURE	DEPRE	\$\$10H (	F)	23 . 24	1 25 . 24	27 . 28	29 - 30	> 31	TOTAL D.B./W.B.	Dev Bulh	TOTAL	Dew
	-26/-27	-	1.2	3.4	3.8	/	7.10	11112	13.13	12.10	1 10	17.20	21.44		123.20	****	27 - 30			5.7 55.6		-
	-28/-29																		<u> </u>	·		
	-32/-33 -34/-35	į														1						
- 1	-36/-37																					_
	-38/-39																					
	-46/-47 -48/-49														1 1							
	TOTAL	2.4	4.9	6.1	3.7	9.8	4.9	14.6	24.4	24.4	3.7	1.2								91	4	
								<b></b>							1				82		82	
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0.26.5 (OL A)								<del> </del>		-					+-1						<del> </del>	
9.9								-	<u> </u>												}	_
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20 E								ـــل	<u> </u>			ļ.,,,,,						L				L.
	Elemen (X) Rel, ⋈ m.		Z 41	2260		2 x 2 2	00	27.8	26 6		No. Ob				1 32 F	Mean N ≥ 67		ours wit	h Tempera	ture ≥ 53	<u>-                                    </u>	Total
<u> </u>	Dry Auth		14	1185		36	43	40.0	3.8	366		91	± 0 F	-	5.1	201	+	13 5	1 - 0 11 1	- 73	<del>'</del>	. 0191
USAFETAC	W Bulb			6515		23	15	28.2	3.	182		82			82.8							
<b>5</b> [	" Point /		3	7009			35	7	21.	365		82	52	• 2	89.6	<u> </u>						

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOHER 0300-0500 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 47.30 -11 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 46/ 45 1.2 1.2 44/ 43 1.2 1.2 4.810.8 4.8 9.6 4.8 42/ 41 1.2 16 18 40/ 39 21 1.2 2.4 1.2 3.5 2.4 1.212.0 38/ 37 3.6 18 19 361 35 10 10 33 1.2 2.4 1.2 1.2 1.2 1.2 32/ 31 1.2 35/ 29 1.2 23/ 27 25 1.2 261 24/ 23 221 19 18/ 17 16/ 14/ 13 12/ 11 19/ 9 8/ 7 5 61 4/ 21 07 -2/ -4/ -5 -9 -8/ -10/-11 -12/-13 -14/-15 -16/-17 -18/-19 -20/-21 Element (X) Mean No. of Hours with Temperature Rel. Hum. ≤ 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Dry Bulb Wet Bulb Dew Point

O GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER O 0380-0500 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 0 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point U (F) -22/-23 -24/-25 (i -28/-29 -39/-31 -42/-43 0 1.2 7.2 4.8 8.4 7.2 9.613.328.918.1 • C C C õ 0.26.5 No. Obs. Mean No. of Hours with Temperature Element (X) Rel. Hum. 133635 30.626.125 39.0 3.703 Dry Bulb 141024 3586 92 4.0 Wet Bulb 65954 4.192 83 82.9 2.718.690 29258 Dew Point 226 88.5

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 78-80 STATION TOTAL TOTAL WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 48/ 47 45/ 45 44/ 43 6.1 42/ 41 8.5 3.7 6.1 8.5 40/ 39 3.7 22 1.2 4.9 2.411.0 1.2 1.2 38/ 37 35/ 2.4 1.2 34/ 33 321 31 1.2 30/ 29 27 26/ 25 1.2 1.2 24/ 23 22/ 21 23/ 18/ 17 16/ 15 14/ 13 12/ 107 9 8/ 6/ 4/ 2/ 07 -21 - 3 -4/ -6/ -7-8/ -9 -10/-11 -12/-13 -14/-15 -16/-17 -18/-19 Element (X) Mean No. of Hours with Temperature ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F 10F ≤ 32 F Rel. Hum. Dry Bulb Wet Bulb

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 78-80 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.8./W.B. Dry Bulb Wet Bulb Dew Point -26/-21 -24/-25 -78/-29 -32/-33 -44/-45 -52/-53 1.2 8.5 3.7 1.212.213.423.217.118.3 1.2 82

No. Obs.

82

91

82

1 32 F

5.1

81.7

2496 3550

2286

126698

140116

65304

28593

30.425.024 39.0 4.252

27.9 4.409

Mean No. of Hours with Temperature

VFETAC FORM 0.26-5 (OLA) REVISE REPOUS EDITIONS OF THE

Element (X)

Dry Bulb

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC 20001 MAUL OPTICAL SITE HI NORTH TOWER 0900-1100 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 +31 D.B. W.B. Dry Bulb Wet Bulb Dew Point 54/ 53 1.2 2.4 50/ 49 1.2 3.6 48/ 47 3.6 2.4 45 46/ 1.2 1.2 44/ 43 2.4 4.8 3.6 2.4 9.6 2.4 2.4 42/ 41 2.4 4.8 13 13 40/ 39 2.4 1.2 1.2 2.4 37 2.4 1.2 2.4 36/ 35 34/ 33 32/ 31 29 31/ 28/ 27 25 26/ 24/ 23 ?2/ 21 77 18/ 16/ 15 14/ 13 12/ 11 13/ 7 8/ 6/ 21 1 07 -1 -21 -61 -10/-11 Element (X) Mean No. of Hours with Temperature 1 32 F Ory Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC NAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 00001 78-89 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp. (F) TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Peint C 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 .31 -24/-25 TOTAL C 83 33 ( 9 (D) 52 No. Obs. Element (X) Mean No. of Hours with Temperature 189489 3199 38.528.412 83 ≤ 32 F 10 F 41.8 5.208 31.2 3.946 1:815.604 3722 Dry Bulb 158042 89 4.2 93 68.3 93 93 Wet Bulb 82222 2592 83 31536 Dew Point 980 36.3

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 78-80 STATION STATION NAME C 1200-1400 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B. W.B. Dry Bulb 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 Wet Bulb Dew Pein 54/ 53 1.2 1.2 52/ 51 3.7 50/ 49 2.4 1.2 2.4 48/ 47 3.7 1.2 13 45/ 45 1.2 2.4 8 . 5 1.2 1.2 44/ 43 421 41 3.7 3.7 1.2 13 2.4 4.9 40/ 39 1.2 38/ 37 2.4 2.4 36/ 35 2.4 1.2 34/ 33 32/ 31 33/ 29 18 25/ 27 3.7 1.2 26/ 25 24/ 23 22/ 21 301 18/ 17 14/ 13 12/ 11 10/ 8/ 51 4/ 21 0/ - 1 -21 -4/ -6/ -8/ -9 -10/-11 Element (X) Mean No. of Hours with Temperature 10 F ≰ 32 F Rel. Hum. Dry Bulb Wet Bulb Dew Point

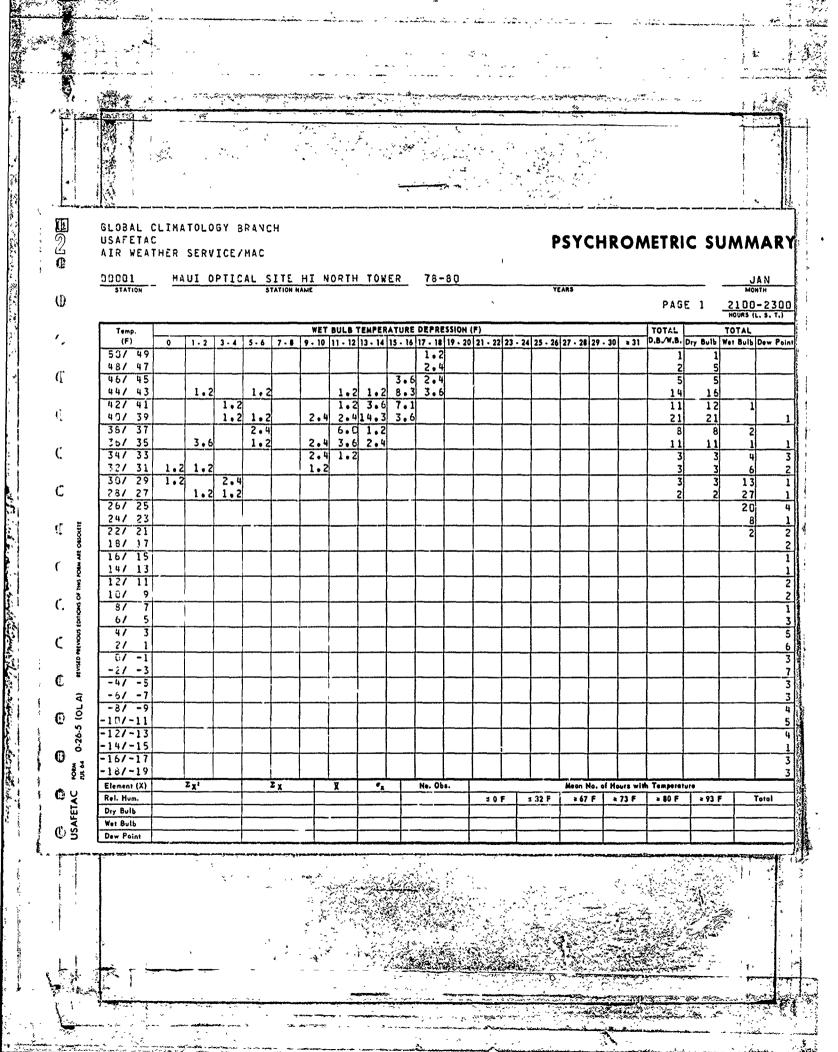
GLOBAL CLIMATOLOSY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 78-80 1200-1400 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1 · 2 3 · 4 5 · 6 7 · 8 9 · 10 11 · 12 13 · 14 15 · 16 17 · 18 19 · 20 21 · 22 23 · 24 25 · 26 27 · 28 29 · 30 • 31 1 · 2 8 · 5 7 · 3 2 · 4 1 1 · 6 17 · 1 8 · 5 7 · 3 2 0 · 7 1 1 · 0 4 · 9 D.B. W.B. Dry Bulb Wet Bulb Dew Point TOTAL €. (1 ತ Mean No. of Hours with Temperature Element (X) 267 F 273 F 280 F 293 F Rel. Hym. 159473 36.325.170 1 32 F 170869 3841 43.6 6.082 5.3 Dry Bulb 88 Wet Bulb 87466 2658 32.4 4.018 49.9 Dew Point 13.213.551

GLGBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 90001 MAUI OPTICAL SITE HI NORTH TOWER PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp. (F) 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 23 | 29 . 30 | • 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 54/ 53 52/ 51 50/ 49 1.2 1.2 4.7 48/ 47 2.4 4 . 7 46/ 45 1.2 8.2 2.4 44/ 43 1.2 3.5 2.4 1.2 2.4 42/ 41 43/ 39 2.4 2.4 C 1.2 38/ 37 1.2 4. 36/ 35 1.2 34/ 33 1.2 2.4 32/ 31 1.2 30/ 29 1.2 28/ 27 26/ 25 23 241 221 241 10 18/ 16/ 15 14/ 13 12/ 11 10/ 6/ 6/ 4/ 2/ -21 -3 - 5 -4/ -61 -8/ -9 -10/-11 -12/-13 El-ment (2) Mean No. of Hours with Temperature ≤ 32 F 267 F 273 F 280 F 293 F Rel. Hum. 4 0 F Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 1500-1700 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. (F) (" 1 . 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb | Wet Bulb | Dew Poin -14/-15 5.9 4.710.410.412.915.316.512.9 3.5 TOTAL 85 85 () C No. Obs. Mean No. of Hours with Temperature Element (X) Rel. Hum. 135364 2730 32.123.825 ± 0 F 1 32 F 85 Dry Bulb 154613 3333 42.1 5.929 91 7.2 Wet Bulb 2591 30.5 3.718 80141 85 67.8 Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 1 78-80 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 53/ 49 1.2 48/ 47 3.6 7.2 7.2 46/ 45 1.2 10 44/ 43 6.0 42/ 41 9.6 6.9 16 15 40/ 39 3.6 7 . 2 1.2 1.2 33/ 37 2.4 1.2 6 . C 36/ 35 1.2 34/ 33 1.2 32/ 31 1.2 1.2 1.2 29 1.2 28/ 27 261 25 24/ 23 221 21 23/ 19 13/ 17 16/ 15 14/ 13 12/ 11 10/ 9 3/ 5/ ī -2/ - 3 -5 -4/ -61 -8/ -9 -10/-11 -12/-13 -14/-15 -16/-17 Element (X) Mean No. of Hours with Temperature ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F Rel. Hum. Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 78-80 1800-2000 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -18/-19 9.631.319.3 TOTAL 83 83 3 õ No. Obs. Mean No. of Hours with Temperature Element (X) ≥73 F ≥80 F ≥93 F 29.926.795 83 ⊴ 32 F 132921 479 Rel. Hum. 10.4 89 Dry Bulb 144503 3561 40.0 4.795 28.3 2.953 80.7 93 67421 2353 Wet Bulb 89.6



GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

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### **PSYCHROMETRIC SUMMARY**

MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 | D.B./M.B. Dry Bulb | Wet Bulb | Dew Point (F) ~20/-21 -22/-23 -26/-27 -32/-33 -46/-47 TOTAL 2.4 7.1 6.0 6.0 8.315.522.622.6 90 84 Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. 126615 2371 28.226.817 ≤ 0 F ≤ 32 F Dry Bulb 142898 3562 39.6 4.647 8.3 90 Wet Bulb 66177 27.8 3.552 84 84.1

ELOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** LSAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER Ţ, HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 31 D.B./W.B. Dry Bulb Wet Bulb Dew Pain 54/ 53 50/ 1.4 55 23 48/ 47 2.0 2.0 46/ 56 44/ 43 421 6.5 104 110 39 130 35/ 37 36/ 35 1.1 34/ 33 28 32/ 31 30/ 29 126 21 23/ 26/ 131 22 24/ 721 16 19 18/ 17 12/ 11 15/ 8/ 21 -21 -4/ -5 -8/ -9 -10/-11 25 -12/-13 Element (X) Meen No. of Hours with Temperature +67 F +73 F +80 F Rel. Hum. ± 32 F Dry Bulb Wet Bulb

O GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY (a) AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 78-80 PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -14/-15 18 -18/-19 -22/-23 -24/-25 -26/-27 -28/-29 -30/-31 - 42/-33 -34/-35 -38/-39 -42/-43 -44/-45 -45/-47 -48/-49 -52/-53 TOTAL 7.710.513.420.019.6 7.2 1.5 721 564 664 564 9 0.26.5 Element (X) No. Obs. Mean No. of Hours with Temperature 1126452 2197 31.726.275 664 10F ± 32 F 40.6 5.099 721 Dry Bulb 1209250 29298 49.5 744 Wet Bulb 19448 29.3 4.180 598.3 744 664 Dew Point 309. 664 744

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1.40 GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER FEB 79-80 YEARS PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 = 31 D.B. W.B. Dry Bulb Wet Bulb Dew Point C -26/-27 -28/-29 C -32/-33 -36/-37 -40/-41 0 TOTAL 9.624.0 3.211.2 8.6 3.210.412.8 7.2 9.6 125 125 O ₹ õ No. Obs. Mean No. of Hours with Temperature Element (X) X USAFETAC 462613 6137 49.136.068 125 ≤ 32 F ± 0 F 231053 5999 38.0 4.571 10.1 Dry Bulb 153 123840 3858 30.9 6.200 125 53.1 84 Dew Point 90104 1452 84

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GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC MAUL OPTICAL SITE HI NORTH TOWER 00001 79-80 0300-0500 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Pein 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 16 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 (F) 53/ 8.2 48/ 47 45/ 45 4.1 44/ 43 2.5 5.7 1.5 42/ 41 3.3 1.6 4.9 1.6 2.5 43/ 39 31 35/ 37 1.6 3.3 4.9 19 4.9 36/ 35 2.5 34/ 33 1.5 1.6 11 1.5 33/ 29 26/ 25 24/ 23 22/ 21 2./ 19 21 13/ 17 16/ 15 14/ 13 14/ 11 C/ -1 -2/ - 3 -5/ -7 -13/-11 -14/-15 -16/-17 -18/-19 -22/-23 -24/-25 Element (X) Mean No. of Hours with Temperature ± 0 F s 32 F ≥67 F ≥ 73 F > 80 F > 93 F Rel. Hum. Dry Bulb C S Wet Bulb

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC HAUI OPTICAL SITE HI NORTH TOWER PAGE 2 0300-0500 Hours (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 D.B. W.B. Dry Bulb Wet Bulb Dew Pain -26/-27 -23/-29 -33/-31 -32/-33 -34/-35 -43/-41 TOTAL 9.025.4 7.4 8.2 5.7 2.5 7.4:0.7 9.813.9 156 122 ğ 0.26.5 Element (X) Mean No. of Hours with Temperature 461719 49.436.857 38.7 4.593 1 32 F Rel. Hum. 6023 122 5 0 F 6944 Dry Bulb 237436 156 7.0 31.4 5.660 Wet Bulb 124427 3835 122 50.3 84 60.6

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 30001 MAUI OPTICAL SITE HI NORTH TOWER PAGE 1 0600-0800 Temp. (F) WET BULB TEMPERATURE DEPRESSION (F) TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 = 31 50/ 49 • 8 5 • 6 48/ 47 a 46/ 5.6 1.6 43 44/ 42/ 41 4.0 2.4 1.6 2.4 0 2.4 1.6 43/ 39 8.1 36/ 37 1.6 4.0 2.4 1.6 • 3 1.6 35 2.4 10 34/ 33 4 . 8 1.5 2.4 • 8 15 2.4 2.4 321 31 1.6 33/ 23 • 8 28/ 27 1.6 261 25 241 23 22/ 21 19 18/ 17 14/ 13 12/ 13/ 0/ 61 21 3/ -1 -4/ 10/-11 -18/-19 -20/-21 Zx2 Mean No. of Hours with Temperature Element (X) Tetal ≥67 F ≥73 F ≥80 F ≥93 F Dry Bulb Wet Bulb Dew Point

0 GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 79-80 O PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp D.B./W.B. Dry Bulb Wet Bulb Dew Point 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 -72/-23 -24/-25 -23/-29 -34/-35 -36/-37 - 78/-39 TOTAL 8.927.4 6.5 5.6 8.1 4.8 6.510.5 8.113.7 157 124 124 C C Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. 473622 6186 49.936.628 124 ≤ 0 F 1 32 F ≥67 F ≥ 73 F ≥ 80 F × 93 F Dry Bulb 232499 6001 38.2 4.474 157 5.4 Wet Bulb 122450 3840 31.0 5.360 51.5

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 STATION NAME 0900-1100 O PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp D.B./W.B. Dry Bulb W. bulb Dew Point 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 23 (F) 1.7 56/ 55 54/ 53 5.1 52/ 50/ 49 1.7 1.7 48/ 47 3.4 46/ 45 . 8 2.5 2.5 44/ 43 3.4 2.5 . 8 • 8 15 42/ 41 1.7 . 8 45/ 39 6.8 2.5 1.7 18 26 5 37 387 5.9 5.1 1.7 \_ ผ 20 36/ 35 . 8 1.7 2.5 8 33 34/ 6 5 72/ 31 1.7 351 29 28/ 27 25 23 241 22/ 21 22/ 19 15 16/ 14/ 13 16/ 7 3/ 6/ 4/ 3 21 -1 -3 -21 -7 -19/-11 -12/-13 -16/-17 Element (X) Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME YEARS 0900-1100 HOURS (L. S. T.) PAGE 2 700p. WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | 23 | D.B./W.B. Dry Bulb Wet Bulb Dew Point -18/-19 -23/-21 -22/-23 -32/-33 -44/-45 TOTAL 11.922.911.9 6.8 4.2 4.2 4.2 7.6 9.3 6.8 9.3 118 118 0-26-5 (OL A) () USAFETAC N No. Obs. Mean No. of Hours with Temperature Element (X) ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. 486406 6290 118 10F 1 32 F Dry Bulb 267271 6377 41.1 5.646 155 2.2 Wet Bulb 141048 4332 34.2 5.292 118 29.9 84

GLOSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 VFARE PAGE 1 1200-1400 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 . 23 D.B./W.B. Dry Bulb Wet Bulb Dew Point 58/ 57 56/ 55 3.3 53 49 3.3 47 2.5 3.3 2.5 44/ 43 2.5 421 41 3.3 42/ 39 4.1 . 8 1.7 1.7 • 8 21 19 36/ 37 3.3 4.1 35/ 35 . 8 34/ 33 32/ 31 34/ 27 20/ 261 25 241 23 22/ 71 19 201 17 16/ 15 147 13 12/ 11 13/ 87 7 5/ 5 4/ 31 10/-11 Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME STATION YEARS PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 231 D.B./W.B. Dry Bulb Wet Bulb Dew Point -14/-15 -29/-21 -22/-23 -42/-43 -44/-45 C TOTAL 5.823.110.7 5.d 9.1 5.8 9.1 9.1 7.4 8.3 5.d 1.7 121 121 õ Œ O Element (X) No. Obs. Mean No. of Hours with Temperature 52.032.746 43.0 5.329 36.2 5.531 455337 6287 121 ≤ 0 F ≤ 32 F ≥ 93 F Dry Bulb 295164 6746 157 84 Wet Bulb 162654 4386 121 19.4 84 Dew Point 104432

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 FEB STATION 1500-1700 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 53/ 57 56/ 55 54/ 53 3.3 52/ 51 50/ 49 1.7 48/ 47 46/ 45 5.0 1.7 2.5 4,2 1.7 19 19 5.0 44/ 43 2.5 42/ 41 2.5 .8 2.5 22 • 8 2.5 18 40/ 39 4.2 1.7 19 15 38/ 37 1.7 2.5 .8 1.7 1.7 1.7 12 10 36/ 35 2.5 33 34/ 17 32/ 31 31/ 29 28/ 27 25/ 25 24/ 23 22/ 21 18/ 17 16/ 15 14/ 13 8/ 5 4/ 3 3/ -1 - 3 -5 -6/ -7 -8/ -9 -10/-11 No. Obs. Mean No. of Hours with Temperature Element (X) ≤ 32 F Rel. Hum. 10 F C) USAFET Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 STATION WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) -12/-13 -14/-15 -18/-19 -20/-21 -22/-23 -30/-31 -32/-33 -36/-37 -38/-39 4.230.011.7 3.4 1.712.5 5.0 7.510.8 5.0 5.8 2.5 TOTAL 123 120 C No. Obs. Mean No. of Hours with Temperature Element (X) CO Rel. Hum. 480143 6351 52.934.788 120 1 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Dry Bulb 280456 6560 42.1 5.447 156 Wet Bulb 154547 4255 Dew Point 104168

GLOBAL CLINATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 1800-2000 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp. 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Point 52/ 51 50/ 49 43/ 47 46/ 45 2.5 3.4 5.0 44/ 43 5.0 42/ 41 .810.9 3.4 39 43/ 3.4 4.2 2.5 26 30 18 12 2.5 321 1.7 36/ 35 3.4 1.7 2.5 2.5 22 17 32/ 31 .8 28/ 27 24/ 23 22/ 21 2./ 19 18/ 17 16/ 14/ 13 12/ 8/ 27 -3 -21 -6/ -10/-11 -14/-15 Element (X) Dry Bulb Wet Bulb Dew Point

SLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION	<u>M.</u>	UI O	PTIC	ALS	ITE	HI P	UORTH	TOW	IER	79-	80			YE	ARS					F	EB HTH
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Temp.			· · · ·			WET	BULB '	TEMPER	RATURE	DEPRE	SSION (	F)						TOTAL		TOTAL	
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Element (X)		ΣX,			ZX		X			No. O								h Tempera			
Ret. Hum.			6780			100	53.8	35.9	759		19	10F	$\perp$	± 32 F	≥ 67	F	73 F	≥ 80 F	* 93	F	Total
Dry Bulb			7754			174		4.2			57		$\bot$	6.4		_		<u> </u>			
Wet Bulb			0859			81		6.5			19		- -	41.6		_ _		<del> </del>		_ _	
Dew Point		9	6087	1	19	19	16.1	23.4	96	1	19	24.	7	55.8	1	L_					

USAFETAC FORM 0.26-5 (0) A) BENEGORIENDES DOFFES FORMAN

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 YEARS O WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 D.B. W.B. Dry Bulb Wet Bulb Dew Point (F) 50/ 49 48/ 47 46/ 45 1.7 1.7 44/ 43 3.3 5.7 1.7 2.5 . 8 42/ 41 7.5 5.8 24 25 40/ 39 4 . 2 3.3 38/ 37 2.5 . 8 . 8 18 25 35 1 . 7 36/ 34/ 33 . 8 3.3 1.7 10 18 32/ 31 29 36/ 20 28/ 27 261 25 17 24/ 23 22/ 21 20/ 19 18/ 17 16/ 15 12/ 11 10/ 51 5 0/ 4/ - 1 -2/ -3 -4/ - 5 -6/ -8/ -9 -10/-11 -12/-13 -14/-15 -18/-19 -21/-21 Element (X) Rel. Hum. ≥67 F | ≥73 F | ≥80 F | ≥93 F ± 32 F Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIP WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-60 PAGE 2 WET BULB TEMPERATURE DEPFESSION (F)
1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 17 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | ≥ 31 TOTAL TOTAL Temp. (F) D.B./W.B. Dry Bulb Wet Bulb Dew Point -22/-23 -24/-25 -78/-29 -36/-31 -32/-33 -40/-41 -42/-43 TOTAL 5.d28. \$ 9.210.d 5.d 8. \$ 2.514.211.7 5.d 120 120 ತ G ဘ Element (X) No. Ubs. Mean No. of Hours with Temperature 458731 235239 50.935.307 38.1 4.385 6103 120 ≤ 32 F 6095 Dry Bulb 160 8.4 Wet Bulb 3798 120 48.3 84

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE / MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 FEB PAGE 1 ALL HOURS (L. S. T.) TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 \$8/ 501 54/ 49 1.2 25 26 2.4 46/ 85 86 421 41 1.4 2.6 134 153 55 437 164 205 33/ 37 2.3 131 196 92 36/ 35 2.0 91 2.0 161 34/ 33 64 121 107 56 30 50 45 31 12 112 28 33/ 781 27 38 82 261 25 34 34 24 36 23 22/ 21 17 23/ 19 23 20 18/ 17 15 23 16/ 13 14 11 15/ 61 Element (X) Mean He, of Hours with Temperature ≥ 93 F > 80 F ± 32 F Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR KEATHER SERVICE/MAC

#### **PSYCHROMETRIC SUMMARY**

MAUI OPTICAL SITE HI NORTH TOWER WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 2 31 D.B.W.B. Dry Bulb Wet Bulb Dew Point -10/-11 -12/-13 -14/-15 14 -16/-17 -16/-19 -22/-23 -24/-25 -26/-27 -30/-31 -34/-35 -36/-37 -38/-39 -46/-41 -42/-43 -44/-45 TOTAL 6.1 5.7 6.710.8 9.4 1256 969 969 Element (X) No. Obs. 3775351 49777 51.435.477 969 ≤ 32 F 39.7 5.258 2016873 49896 Dry Bulb 1256 41.7 672 Wet Bulb 1084101 31885 32.9 6.006 969 317.6 672 Dew Point

2000 GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER PAGE 1 0000-0200 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. (F) D.B./W.B. Dry Bulb Wet Bulb Dew Point 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 + 31 0 50/ 45 48/ 47 3.6 3.6 46/ 45 • 7 44/ 43 7 . 3 1.5 6.6 9.5 421 41 5.8 31 31 1.5 2.2 3.6 40/ 39 4.4 41 2.2 36/ 37 1.5 2.9 • 7 30/ 35 1.5 34/ 33 1.5 32/ 31 30/ 29 21 25/ 27 26/ 25 23 24/ 23 721 21 20/ 19 17 18/ 16/ 15 14/ 13 137 9 7 5 6/ 1 1 ن -21 -5/ -7 0.26.5 -13/-11 -14/-15 -16/-17 -16/-19 Element (X) No. Obs. Mean No. of Hours with Temperature رد. ⊖ USAFETAC ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F 10F ± 32 F Rel. Hum. Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 PAGE 2 0000-0200 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) -22/-23 -24/-25 -28/-29 -34/-35 -36/-37 -42/-43 -45/-47 -48/-49 TOTAL 2.910.9 2.2 5.8 2.912.413.925.519.7 3.6 137 137 137 No. Obs. Element (X) Mean No. of Hours with Temperature 32.828.465 40.5 3.513 258004 4500 137 ≤ 0 F ± 32 F

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Dry Bulb

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 MAR STATION O 0300-0500 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Poin (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 56/ 49 2.9 1.5 48/ 47 1.5 4.4 45 1.5 46/ 11 11 2.9 44/ 43 28 5.1 40 25 8.1 6.6 42/ 41 3.7 40 3.7 5.9 25 46/ 39 10 38/ 37 2.9 1. 10 2.2 35 1.5 34/ 33 32/ 31 3.77 29 21 28/ 27 25/ 25 221 21 19 16/ 17 10/ 15 14/ 13 12/ 11 13/ 8/ 5 61 21 3/ -21 - 3 -4/ -10/-11 -12/-13 -14/-15 -16/-17 Element (X) Mean No. of Hours with Temperature 1 32 F ≥67 F ≥ 73 F > 80 F ≥ 93 F Rel. Hum. 4 0 F Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER TOTAL TOTAL
D.B./W.B. Dry Bulb Wet Bulb Dew Poin WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 -24/-25 -26/-27 -28/-29 -30/-31 -36/-37 -38/-39 -42/-43 -40/-47 TOTAL 3.710.3 .7 1.5 7.4 7.417.620.628.7 136 136 136 136 Element (X) No. Obs. Mean No. of Hours with Temperature 245912 4336 136 ± 32 F 41.3 3.515 Dry Bulb 234002 5620 136 126587 135 Dew Point 781

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER MAR STATION STATION NAME 0600-0800 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 1.5 3.0 5.3 1.5 43/ 47 46/ 45 1.5 .8 4.5 .3 9.8 21 21 44/ 43 8.3 42/ 41 6.1 2.3 4.5 39 4.5 25 33/ 37 2.3 2.3 35 34/ 33 321 31 29 27 25 23 21 17 15 16/ 14/ 13 12/ 6/ 4/ -4/ -3/ -12/-13 -18/-19 No. Obs. Element (X) Mean No. of Hours with Temperature Rel. Hum. 10F ± 32 F 267 F 273 F 280 F Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AJR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -26/-27 -28/-29 -33/-31 -32/-33 -36/-37 -38/-39 -43/-41 -42/-43 -53/-51 TOTAL 7.613.628.822.0 6.1 133 132 132 Element (X) No. Obs. Mean No. of Hours with Temperature O LOS USAFETAC 230062 4108 31.127.933 132 ± 0 F ≤ 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F 41.4 3.686 229485 Dry Bulb 5503 133 2.1 Wet Bulb 123566 3996 132 68.3 93 Dew Point 58064 634

GLOSAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER MAR STATION 0900-1100 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 231 | D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 54/ 53 52/ 51 3.1 7.0 3.1 50/ 49 21 21 6.210.1 48/ 47 3.9 46/ 45 4.7 6.2 26 26 3.9 44/ 43 1.6 3.1 42/ 41 3.1 1.6 2.3 38/ 37 351 35 1.6 34/ 33 32/ 31 31/ 29 28/ 27 261 25 24/ 23 221 21 19 23/ 15/ 17 16/ 15 14/ 13 12/ 11 15/ ô/ 6/ 4/ 21 37 -21 -4/ - 5 -8/ -9 -10/-11 -16/-17 Element (X) No. Obs. Mean No. of Hours with Temperature 1 32 F Dry Bulb Wer Bulb Dew Point

GLOSAL CLIMATOLOGY BRANCH USAFETAC ATR WEATHER SERVICE/MAC 00001 STATION

### PSYCHROMETRIC SUMMARY

MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 79-80 MAR YEARS PAGE 2

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Temp														1	144	100			<u></u>	TOTAL	15 -						
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Dew Point		- 5	6806		15	0.21	12.5	116.0	4.70	•	70	19	. 51	75.7	2	3		I	ł	i	9:						

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER MAR STATION 1200-1400 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Point (F) 55/ . 8 54/ 53 23 25 52/ 51 1.6 1.6 2.4 23 53/ 49 4.8 4.0 17 17 45/ 2. 45 21 2.4 42/ 41 39 37 36/ 35 34/ 33 321 31 33/ 29 27 28/ 76/ 25 721 21 19 13/ 17 15/ 15 13 12/ 13/ 5/ 4/ -81 Element (X) Mean No. of Hours with Temperature Rel. Hum. ± 0 F 1 32 F Dry Bulb Wet Bulb Dew Point

SLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 00001 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp D.B./W.B. Dry Bulb Wet Bulb Dew Point 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 -12/-13 -18/-19 -20/-21 TOTAL 7.117.513.514.315.1 5.6 126 126 No. Obs. 4779 37.925.770 263967 126 ≤ 32 F Dry Bulb 289243 6339 47.6 4.064 127 156515 4553 3.993 2241

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

Element (X)

Rel. Hum.

Dry Bulb Wet Bulb

# PSYCHROMETRIC SUMMARY

Mean No. of Hours with Temperature

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Temp					,	WET	BULB 1	EMPER	ATURE	DEPRE	SSION	(F)		·	,	,	,	TOTAL		TOTAL	φ
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B.-W.B. Dry Bulb Wet Bulb Dew Poin (F) -16/-17 -18/-19 -76/-27 1.510.7 6.9 3.1 7.8 9.214.510.724.410. TOTAL 131 131 C C No. Obs. Mean No. of Hours with Temperature Element (X) 38.926.810 46. 4.158 291911 5399 131 283420 Dry Bulb 6092 132 Wet Bulb 165115 4615 131 93 93

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 22921 MAUL OPTICAL SITE HI NORTH TOWER 79-80 MAR PAGE 1 1800-200C WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. D.B./W.B. Dry Bulb Wet Bulb Dew Pein 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 52/ 51 5./ 49 451 47 18 46/ 45 3.q 3.7 44/ 43 6.7 24 3.7 7.4 42/ 41 3.Q 40/ 39 3.5 3.0 38/ 37 36/ 35 34/ 33 321 31 36/ 29 -61 27 26/ 25 24/ 23 22/ 21 231 19 101 17 10/ 15 13 12/ 11 + / 41 -4/ -6/ -7 -3/ -1./-15 -14/-15 No. Obs. Element (X) Mean No. of Mours with Temperature C USAFETAC Rel. Hum. 10F ± 32 F Dry Bulb Wet Bulb Dew Point

TANK WIFE

3LOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 32901 MAUI OPTICAL SITE HI NORTH TOWER 79-80 STATION STATION NAME 1800-2000 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 3 - 4 5 . 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 23 1 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) -16/-17 -19/-19 -20/-21 -26/-27 -26/-29 -30/-31 -30/-37 TOTAL 2.415.6 2.2 1.5 3.713.3 6.720.727.4 6.7 135 9 No. Obs. Element (X) 283123 4711 34.929.766 135 1 32 F 42.2 Dry Bulb 243328 5702 4.045 135 1.4 4234 4.622 64039 1111

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 79-80 MAUI OPTICAL SITE HI NORTH TOWER STATION C 2100-2300 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point 1 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | = 31 (F) 54/ 49 1.5 48/ 47 **(**; 45/ 45 3.0 2.3 13 13 4.5 44/ 43 4.5 1.5 1.5 2.3 42/ 41 6.8 30 2.3 C 45/ 39 33/ 57 2.3 3.0 35/ 35 1.5 34/ 33 32/ 31 29 287 27 26/ 25 24/ 23 72/ 21 23/ 19 13/ 17 16/ 15 13 14/ 12/ 11 9 3/ 5 5/ 21 1 -5/ -7 -1-/-11 -16/-17 Mean No. of Hours with Temperature No. Obs. Rel. Hum. 10F 1 32 F Dry Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH JSAFETAC **FSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1. 2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin -23/-21 (. -24/-25 -28/-29 -35/-31 -34/-35 -36/-37 C -38/-39 -43/-41 -42/-43 -44/-45 · 8 7.5 9.8 9.022.627.1 4.5 TOTAL 1.512.8 4.5 135 133 (+ Element (X) No. Obs. Mean No. of Hours with Temperature 259975 4381 32.929.602 133 ≤ 32 F 5516 40.9 3.854 227380 135 2.8 Dry Bulb 123132 4006 30.1 4.326 133 68.5 546 133 Dew Point 81.8

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

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### PSYCHROMETRIC SUMMARY

OGOOL MAUL OPTICAL SITE HI NORTH TOWER 79-80 MAR
STATION STATION NAME YEARS MONTH
PAGE 1 ALL
HOURS (C. S. T.)

Temp						WET	BULB T	EMPER	ATURE	DEPRE	SSION (	F)						TOTAL	T	TOTAL	
(F)	0	1 - 2	3 · 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
56/ 55											• 1							1	1		
54/ 53						. 1	• 2	. 6	. 3	• 2	• 2							16	16		1
52/ 51						• 2	• 9		1.0	• 5	• 3			i			1	43	43		i
50/ 49			ļ		• 5	. 4	1.4							ŀ				8 2			ĺ
49/ 47				. 1	• £	• á	• 8		3.7	2.9				1			<u> </u>	111			
45/ 45		. 5	• 6		• 6	. 8	2.0		3.8	1.6				1				135	135		1
44/ 43		1.5	.6	• 3	• 8	1.3	1.7	2.5	5.7	.7				l —				159		15	1
42/ 41		3.6	.6	• 7	1.3	1.6	2.2		4.2					ļ				200	201	46	
43/ 39	• 5	2.6	• 3	. 4	. 5	1.9	2.6	3.7	2.4									158		84	33
38/ 37	• 8	1.4	.5	- 4	• 8	1.3	1.4	1.4						1			ĺ	81	82	71	41
36/ 35	. 8	1.3	• 5	• 3	• 1	- 6	• 4	• 3										46	47	100	32
34/ 33	• 1	. 4	• 1	• 1	• 1	• 2	• 3	• 1						1			İ	14	15	139	1 33
32/ 31		• 5	_	• 1		• 1	• 1							Ĭ				8	8	139	16
3-/ 29		. 1			• 1	• 1	-							İ			1	3	3	161	27
23/ 27																				183	
25/ 25																				95	31
24/ 23	• 1																	1	1	15	
22/ 21		• 1												<u> </u>				1	1	8	31
21/19																				3	31 32
15/ 17																			<u> </u>		35 36
16/ 15																		1			36
14/ 13																					38 51
12/ 11														l				l			51
15/ 9																			<u> </u>		44
ε/ 7															1						36
0/5																		<b></b>			42
4/ 3							i							1				l			51
4/1																					45
5/ -1															J i						40
-// -3		 												<u> </u>							31
-4/ -5																					31
-6/ -7			-											<u> </u>			<u> </u>			ļ	26
-8/ -9																			1		28
-16/-11			!						L.,					!			<u> </u>				19
Element (X)		ΣX1			ZX	_	X	<b>₹</b>		No. Ob	8.				y			h Tempero		<del></del>	
Rel. Hum.												± 0 F		32 F	≥ 67	F   *	73 F	> 80 F	≥ 93	F	Total
Dry Bulb									4						<u> </u>			ļ			
Wet Bulb		· · · · · · · ·											$\bot$		<u> </u>			<b> </b>			
Dew Point				i											<u> </u>			<u>!</u>			

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SLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

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<b>PSYCHROMETRIC</b>	SUMMARY

MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp TOTAL

0	1.	2	3 - 4	5	6	7 - 8	9 - 10	11	- 12	13 - 14	15 -	16 17	7 - 18	19 - 20	21 - 22	23 - 2	4 25 - 26	27 - 28	29 - 30	<b>a</b> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew P
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	ΣX			$\vdash$	Z	X	$\neg$	<u> </u>	$\dashv$	₹,	-	N	le. Ob	5.	!	<u> </u>	<u> </u>	Mean I	to. of H	ours wit	h Tempera	ture	l	<u> </u>
			905	1		363	99			28.				159	± 0	F	± 32 F	≥ 67		73 F	≥ 80 F	· 93	f	Total
	1	99	764	*		458		43	. 1	4 . !	515			64		$\neg \vdash$	9.1				1	1		7
			222					32	• d	4 . !	391						424.3				<del>                                     </del>	+		7
					-										229						1	1		<del></del>
			581																					

Element (X)	ΣXι	ZX	X	₹ <sub>A</sub>	Ne. Obs.	Mean No. of Hours with Temperature											
Rel. Hum.	2089055	36399	34.4	28.143	1059	± 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb	1997649	45841	43.1	4.515	1064		9.1					744					
Wet Bulb	1112225	33927	32.0	4.891	1059		424.3				1	744					
Dew Point	505814	9940	9.4	19.746	1059	229.0	629.5					744					

SLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

APR
STATION STATION NAME 79

PAGE 1 0000-0200 Hours (L. s. T.)

Temp.						WET	BULB '	TEMPER	ATURE	DEPRE	SSION (	F)						TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 . 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	× 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poin
52/ 51			-				1				1.1							1			
50/ 49											2.3							2	2		
48/ 47						2.3	1		3.4	5.7								10	10		
46/ 45	- 1					1.1				5.7	i							10			1
44/ 43			3.4	1.1	1.1			1.1										14			
42/ 41	-	1.1	2.3		1.1			3.4										9	9	2	
40/ 39	4.5	6.9	2.3			1		1.1	1.1									14	14	11	:
38/ 37				2.3	2.3		1	3.4										9	9	7	9
35/ 35		2.3	1.1	4.5				1.1										8	8	5	2
34/ 33				1.1			2.3										L	3	3	8	4
32/ 31		1.1	2.3															3	3	12	3
30/ 29			1.1			1.1												2	2	19	3
29/ 27	1.1										ŀ							1	1	10	3 3 1 5
75/ 25																					5
24/ 23				1.1				ĺ										1	1	4	5
22/ 21				1.1			<u> </u>					i						1	1	1	4
20/ 19							ĺ													1	4
16/ 17					-		<u> </u>							<u> </u>							3
15/ 15	İ													l						1	١.
6/ 5							<u> </u>											<del> </del>	<b> </b>		1 1
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3/ -1						<del> </del>	<del> </del>		<b> </b>		<del> </del>							<del> </del>	<del> </del>		
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-4/ -5			<u> </u>			<del> </del>	<del> </del>									<del>-</del>	<del> </del>	<del> </del>			7
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-8/ -9							<del> </del>	<del> </del>			<del> </del>										2
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-14/-15	-					!	ł	İ										İ			ī
-16/-17																					3
-16/-19																					4
-23/-21					i	<del>                                     </del>	1	<b> </b>													2
-24/-25						ļ															2
Element (X)		ZX2			ZX		X	٠,		No. O	s.				Meon N	o. of H	ours wit	h Tempera	ture		
Rel. Hum.												± 0 ∣	F :	≤ 32 F	≥ 67	F	73 F	≥ 80 F	≥ 93 1		Total
Dry Bulb															<u> </u>						
Wet Bulb																					
Dew Point																					

FETAC FORM 0.26-5 (0) A) BENISD PREVIOUS

SLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER STATION PAGE 2 WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Point ([ (F) -28/-29 -34/-35 -36/-37 5.711.414.811.4 4.5 8.0 2.310.215.912.5 TOTAL 0 O () Element (X) No. Obs. Mean No. of Hours with Temperature USAFETAC 42.332.633 40.6 5.740 267 F 273 F 280 F 293 F 250358 Rel. Hum. 3722 88 ≤ 0 F ≤ 32 F Dry Bulb 8.2 148101 3575 88 Wet Bulb 2752 31.3 5.447 90 88644 88 56.3

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 0 MAUI OPTICAL SITE HI NORTH TOWER U 0300-0500 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. C 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | ≥ 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin 3.310.0 1.1 7.8 43/ 47 13 13 1 • 1 46/ 45 C 2.2 44/ 43 2.2 12 12 42/ 41 7.8 5.6 2.2 40/ 39 3.3 1.1 1.1 22 22 11 C 1.1 2.2 7 o / 35 34/ 33 32/ 31 34/ 29 1.1 13 23/ 27 1.1 76/ 25 24/ 23 22/ 21 10/ 17 15/ 13 14/ 13 12/ 11 31 4/ 21 -6/ -7 -12/-13 0.26-5 -16/-17 -18/-19 -23/-21 -22/-23 Element (X) Mean No. of Hours with Temperature C. (2) USAFETAC ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. ≤ 32 F Dry Bulb Wet Bulb Dew Point

3

GLOBAL CLIMATOLOSY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUT OPTICAL SITE HI NORTH TOWER 79 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B. W.B. Dry Bulb Wet Bulb Dew Poin -24/-25 -25/-27 -28/-29 -38/-39 11.121.1 3.3 1.110.0 6.710.0 8.910.017.8 90 90 €. Element (X) No. Obs. Mean No. of Hours with Temperature 46.436.547 1 32 F 312272 3720 15558: 90 3.0 90 Dry Bulb Wet Bulb 97534 2922 32.5 5.474 90 90 Dew Point 1125 93

SLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER (J 0600-0800 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 . 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin (F) 56/ 55 2.3 50/ 49 1.1 4.5 49/ 47 5.7 46/ 45 1.1 1.1 1.1 1.1 44/ 43 C 2.3 1.1 2.3 42/ 41 1.1 2.3 4.5 3.4 3.4 21 21 40/ 39 3. 2.3 35/ 37 2.3 1.1 2.3 1.1 1.1 36/ 35 1.1 34/ 33 1.1 36/ 31 34/ 29 2 C 28/ 27 26/ 25 1.1 24/ 23 221 20/ 19 18/ 17 13 11/ 11 1:1 6/ -5 -14/-15 -18/-19 ZX No. Obs. Meas No. of Hours with Temperature Element (X) Rel. Hum. Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | ± 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Poin -22/-23 -24/-25 -26/-27 -28/-29 -32/-33 TOTAL 2.315.9 5.711.4 5.711.4 8.0 9.111.4 8.0 9.1 2.3 88 Element (X) No. Obs. Mean No. of Hours with Temperature 40.531.803 42.5 5.350 32.4 4.801 3566 232500 Rel. Hum. 88 10 F ≤ 32 F 161185 3737 88 3.1 50.1 94371 2851 38 90 Wet Bulb 10.622.092 Dew Point 90

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER PAGE 1 0900-1100 HOURS (L. S. T.) TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 23 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 2.3 58/ 57 54/ 53 1.2 1.2 2.3 7.0 3.5 52/ 51 5.8 51/ 49 2.3 45/ 47 1.2 2.3 1.2 1.2 46/ 45 2.3 44/ 43 3.5 2.3 2.3 2.3 2.3 1.2 42/ 41 4.7 1.2 40/ 39 4.7 2.3 20 37 1.2 36/ 35 1.2 2.3 34/ 33 321 31 1.2 311 27 281 26/ 25 24/ 23 20/ 19 19/ 17 16/ 15 14/ 13 12/ 11 3/ 61 1 ğ -6/ -7 -8/ -15/-17 -18/-19 Element (X) ZX, No. Obs. ≤ 32 F 5 0 F Rel. Hum. Dry Bulb Wet Bulb

GLOSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 231 D.B./W.B. Dry Bulb Wet Bulb Dow Point (F) -23/-21 -24/-25 -26/-27 -28/-29 1.214.011.6 1.2 8.112.911.610.511.6 3.5 8.1 5.8 TOTAL 86 Element (X) No. Obs. E 1⊜ USAFETAC 221291 41.329.573 86 ≤ 32 F Rel. Hum. 45.0 5.960 Dry Buth 177439 3873 86 2.1 90 2978 86 29.3 105166 34.6 4.904 90 Wet Bulb

2 GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 03001 MAUI OPTICAL SITE HI NORTH TOWER 79 APR STATION STATION NAME PASE 1 1200-1460 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) D.B./W.B. Dry Bulb Wet Bulb Dew Pain 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 59/ 57 1.2 2.4 56/ 55 2.4 4/ 53 1,2 1.2 3.6 2.4 52/ 51 3.6 1.2 1.2 5 / 49 3.4 1.2 1.2 327 47 2.4 3.6 1.2 1.2 2.4 40, 45 1.2 3.5 2.4 13 44/ 43 5 • Q 3.6 42/ 4) 1.2 2.4 8.3 3.6 41/ 39 2.4 3.6 381 37 1.2 1.2 1.2 1.2 18 34/ 33 1.2 1,2 12/ 31 2.7 20 25/ 27 75/ 75 ( ; 24/ 23 72/ 21 73/ 19 13/ 17 15/ 15 12/ it (, 13/ 7 0/ 4/ 27 1 ./ -1 ₹ -21 - 30 -4/ -5 -E/ -9 -12/-13 -2<sup>2</sup>/-2<sub>1</sub> -/2/-23 E! ment (X) Ho. Obs. Mean No. of Hours with Temperature Rel. Hum. 5 0 F ≥ 73 F ≥ 80 F ≥ 93 F Dry Bulb Wet Bulb De - Opint

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GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 STATION NAME YFARS STATION 1200-1400 HOURS (L. S. T.) PAGE 2 TOTAL
D.B. W.B. Dry Bulb Wet Bulb Dew Point WET BULB TEMPERATURE DEPRESSION (F) Temp. (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 TOTAL 1.217.9 1.2 3.4 9.5 9.514.315.516.7 2.4 3.6 3.6 1.2 84 84 ž Element (X) €x No. Obs. Mean No. of Hours with Temperature

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81

34

10F

≤ 32 F

1.1

22.5

≥ 67 F - 73 F ≥ 80 F ≥ 93 F

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Total

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C 1 D

Rel. Hum.

Dry Bulb

Dew Poins

214222

180915

107695

49949

3516

3364

2982

1539

41.928.423

46.0 5.906 35.5 4.702

SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER APR 1500-1700 HOURS (L. S. T.) PAGE 1 TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 31 D.S./W.B. Dry Bulb Wet Bulb Dew Point 531 1.2 56/ 55 541 53 1.2 1.2 527 51 3.7 1.2 49 2.5 5./ 47 46/ 45 2.5 3.7 3.7 2.5 44/ 43 2.5 2.5 2.5 4.9 1.2 1.2 42/ 41 1.2 3.7 11 09/ ₹9 7.4 3.7 1.2 37 1.2 33/ 35 33 34/ 31 3.1 20 201 27 267 25 24/ 23 1-/ 17 15 13/ 14/ 13 5/ 3 4/ 21 1 -3 ₹ õ -3/ -9 -1J/-11 -12/-13 -15/-17 Element (X) Mean No. of Hours with Temperature ≥67 F = 73 F = 80 F = 93 F Rel. Hum ± 0 F ≤ 32 F Dry Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

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## **PSYCHROMETRIC SUMMARY**

STATION	<u> </u>	UI O	PTIC	AL S	TATION H	HI N	IORTH	<u> </u>	<u> </u>	79				Y	EARS			PAG	E 2		PR HTH )-170: L. S. T.)
Temp					· · · · · · · · · · · · · · · · · · ·	WET	BULB '	TEMPER	ATURE	DEPRE	SSION (	f)						TOTAL		TOTAL	
(F)	0	1 - 2	3 · 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 . 24	25 - 26	27 - 28	29 - 30	<b>a</b> 31	D.8./W.B.	Dry Bulb	Wet Bulb	Dew Pai
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lement (X)		ΣX'			ZX		X	₹ Z		No. Ol	s.				Meon	No. of H	ours wit	h Tempera	lute.		
Rel. Hum			5742		36	48	45.0	29.8	35		81	≤ 0	F	≤ 32 F	≥ 67	F	73 F	≥ 80 F	≥ 93	F	Total
Dry Bulb		16	5246		36	34	44.9	5.2	48		81			1.							5
Vet Bulb		າຄ	1554		28	44	35.1	4.6	0.7		81			24.	4						9
Dew Point		5	2252		14	98	18.5	17.5	17		81	18	. 9	67.	al			1			- 9

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79 APR STATION MONTH Ľ 1800-2000 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 27 - 30 4 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 50/ 55 1.2 54/ 53 1.2 53/ 49 1.2 1.2 1.2 49/ 47 1.2 1.8 1.2 1.2 3.7 4.9 46/ 45 2.5 4.9 44/ 43 1.2 1.2 2.5 6.2 1.2 1.2 4.9 3.7 42/ 41 4.9 13 1.2 7.4 2.5 1.2 4./ 39 2.5 €. 33/ 37 7.4 2.5 1.2 1.2 2.5  $\frac{367}{347} \frac{35}{33}$ 1.2 14 307 31 31/ 29 21 27 25/ 25 24/ 23 22/ 21 2 / 19 13/ 17 16/ 15 14/ 13 127 11 1./ 7 5 4/ 17 1 -2/-3-4/ -5 -6/ -7 --/ -9 -1-/-11 -12/-13 Element (X) No. Obs. Mean No. of Hours with Temperature 267 F 273 F 280 F 293 F Rel. Hum. ± 0 F ≤ 32 F Dry Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

STATION MAUI OPTICAL SITE HI NORTH TOWER PAGE 2

Temp.										DEPRE								TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.S.	Dry Bulb	Wet Bulb	Dew Pol
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TOTAL	3.	21.0	7.4	3.7	7.4	7.4	11.1	9.5	16.0	7.4	2.5	2.5			1				81	1	8
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Element (X)		Σχ'			Σχ		¥	<b>₹</b>		No. Ob	3.				Mean t	to. of H	ours wit	h Tempera	ture		
Rel Hum.			2811		35			32.3	97		81	± 0 F	: ] :	32 F	≥ 67	F 2	73 F	≥ 80 F	≥ 93	F	Total
Dry Bulb			6391				42.3	4.1	82		81									1	9
Wet Bulb			9480		25	66	32.9	4.4	73		81			40.0		7			T -	$\neg$	9
Dew Point		4	6741		11	57	14.4	19.3	42		81	26	.7	64.4		$\neg$				$\neg$	9

Element (X)	Σχ'	ZX	X	₹ <sub>X</sub>	No. Obs.			Mean No. a	f Hours with	Temperatu	10	
Rel Hum.	242811	3587	44.3	32.397	81	± 0 F	s 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	146391	3427	42.3	4.182	81							90
Wet Bulb	89480	2568	32.9	4.473	81		40.0					90
Dew Point	46741	1157	14.4	19.342	81	26.7	64.4					90

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC ([ MAUI OPTICAL SITE HI NORTH TOWER 00001 79 APR STATION NAME (1 PAGE 1 2100-2300 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | 2 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point (F) 52/ 51 1.2 50/ 49 48/ 47 1.2 3.6 40/ 45 1.2 1.2 4.8 4.3 1.2 3.6 1.2 4.8 2.4 1.2 3.6 7.1 1.2 44/ 43 1.2 1.2 42/ 41 4.8 49/ 39 7.1 1.2 1.2 1.2 10 38/ 37 4 . 8 2 . 4 1.2 36/ 35 1.2 1.2 34/ 33 32/ 31 2.4 1.2 1.2 31/ 29 28/ 27 1.2 26/ 25 24/ 23 22/ 21 25/ 19 16/ 17 16/ 15 14/ 13 1 -1/ -3 -5/ -9 -1-/-11 -12/-13 -14/-15 -16/-17 -15/-19 -20/-21 -72/-23 Element (X) Mean No. of Hours with Temperature C C USAFETAC ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F Rel. Hum. Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79 C PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Poin 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 -16/-27 -76<u>/-29</u> TOTAL 84 7.1 9.519.0 8.3 2.4 84 6.021.4 7.1 84 ₹ 9 No. Obs. Mean No. of Hours with Temperature Element (X) (**-C** 45.334.096 40.8 4.705 USAFETAC 269-129 3807 84 ≤ 0 F ≤ 32 F ≥ 80 F ≥ 93 F Rel. Hum. ng 3431 Dry Bulb 141977 84 6.4 31.9 4.943 90 37341 2677 84 52.5 Wet Bulb Dew Point 90

SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR REATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL C D.B./W.B. Dry Bulb Wet Bulb Dew Poin 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 50/ 59 58/ 57 C 55 55/ 54/ 53 26 35 26 52/ 51 1.8 C 507 49 1.9 46/ 47 1.3 1.3 65 65 457 45 2.1 76 75 1.5 44/ 43 2.1 3.7 1.6 106 106 42/ 41 1.d 107 107 43/ 39 103 103 35/ 37 35/ 35 28 69 28 32 34, 33 80 321 31 8 5 28/ 27 66 13 26/ 25 241 23 • 1 3 C 22/ 21 20/ 19 31 13/ 17 15/ 15 28 13 11/ 11 167 9 0/ 5 8 Ę, 47 17 2/ 3/ 15 -4/ -5 -6/ -7 Element (X) No. Obs. Mean No. of Hours with Temperature ± 0 F Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 33001 MAUI OPTICAL SITE HI NORTH TOWER APR ſ, PAGE 2 ALL HOURS (L. S. T.) TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 15 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -3/ -9 12 -13/-11 -17/-13 12 -14/-15 -16/-17 15 -13/-19 -73/-21 16 -22/-23 -24/ -25 -26/-27 -28/-29 -32/-33 -34/-35 -36/-37 -36/-39 4.118.d 7.0 5.0 7.8 9.5 9.210.713.9 8.4 4.0 2.1 TOTAL 682 (OLA) No. Obs Mean No. of Hours with Temperature Ele -int (X) 1773225 2957 43.431.966 682 ≤ 32 F Dry Bulb 1276828 29264 42.9 5.571 682 25.3 720 22574 33.4 5.135 331.5 Wet Bulb 771786 682 720 Dev Point 9538 544.8

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NOPTH TOWER 79 STATION STATION NAME PASE 1 0000-0200 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 | 3 . 4 | 5 . 6 | 7 - 8 | 9 - 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 - 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | = 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Point (F) 1.1 1.1 3.2 1.1 7.5 5.4 54/ 53 52/ 51 4.3 50/ 49 2.2 2.2 7.9 1.1 2.2 7.5 16 16 48/ 47 1.1 46/ 45 5.4 3.2 8.6 4. 20 20 44/ 43 "2/ 41 1.1 44/ 39 1.1 2.2 1.1 38/ 37 1.1 1.1 36/ 35 34/ 33 1.1 32/ 31 357 29 28/ 27 76/ 25 24/ 23 2/ 21 ~L/ 19 18/ 17 15/ 15 14/ 13 1.7 11 7 5 6/ 1 \_/ -21 -0/ -7 -8/ -9 -15/-11 Element (X) Mean No. of Hours with Temperature ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. 10F ≤ 32 F Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79 MAY STATION NAME U 9000-0200 HOURS (L. S. T.) PAGE 2 Temp. WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | 23 | D.B. M.B. Dry Buib Wet Buib Dew Poin (F) -14/-15 -16/-17 -22/-23 -24/-25 -26/-27 -201-29 -33/-31 TOTAL 4.316.110.822.829.012.9 0.26.5 Element (X) No. Obs. Mean No. of Hours with Temperature USAFETAC Rel. Hum. 49195 1761 18.913.125 93 ± 0 F 93 Dry Bulb 208984 4392 47.2 4.129 Wet Bulb 97369 2991 32.2 3.076 93 53.0

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SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUL OPTICAL SITE HI NORTH TOWER 33601 MAY STATION NAME 0300-0500 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin C (F) -4/ 53 1.1 52/ 51 2.2 3.2 5.4 2.2 12 12 5 / 49 42/ 47 2.2 8.5 3.2 3.2 8.5 45/ 45 5.4 4.3 20 20 6.5 €. 44/ 43 4 . 3 42/ 41 2.2 2.2 4./ 39 35/ 37 1.1 1.1 36/ 35 21 34/ 33 327 31 7./ 29 28/ 27 26/ 25 241 23 ^2/ 21 11/ 19 1=/ 17 10/ 15 14/ 13 1./ 11 13/ é/ 61 3 -4/ -5 -6/ -7 -8/ -9 -10/-11 -12/-13 -14/-15 Mean No. of Hours with Temperature Element (X) Rel. Hum. ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Dry Bulb Wet Bulb C S Dew Point

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUL OPTICAL SITE HI NORTH TOWER 0300-0500 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Poin (F) -16/-17 -18/-19 -20/-21 -24/-25 -261-27 ~28/-29 -30/-31 -12/-53 TOTAL 1.1 1.1 2.2 5.414.022.622.622.6 8.6 93 Element (X) Ret. Hem. 5376 1877 20.313.137 2 0 F Dry Bulb 234540 4350 46.8 3.414 93 97063 2994 32.3 2.708 93 52.0 Wet Bulb 93 Dew Point

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GLOBAL CLIMATOLOGY PRANCH PSYCHROMETRIC SUMMARY USAFETAC GAIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER STATION 0600-0800 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 17 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | - 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Point (F) -12/-13 -14/-15 -18/-19 -24/-25 -28/-29 -30/-31 -50/-51 -52/-53 TOTAL 1.1 3.015.128.021.520.4 2.2 ₹ 9 Mean No. of Hours with Temperature Element (X) C 200 41902 1602 1 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. 17.212.470 93 4 0 F 48.5 3.963 32.7 2.676 Dry Bulb 220544 4514 93 100227 3043 93 43.0 Wet Bulb

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	60/ 59										1.1	1.1	1.1		7			3	3	
	56/ 55									1.1	5.4		3.3	<del> </del>				12	12 15	
	54/ 53							1.1		5.4		3.3	2.2	ļ		1	ł	17		
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ا ب	Element (X) Rel. Hum.	Σ,	<u>.                                    </u>			X		X	<b>*</b> **		No. Ob	-	± 0 F	s 32		67 F	≥ 73 F	h Temperatu ≥ 80 F	≥ 93 F	.
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SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 HAUI OPTICAL SITE HI NORTH TOWER <u>79</u> C 0900-1100 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 (F) D.B./W.B. Dry Bulb Wet Bulb Dew Poin -12/-13 -14/-15 -16/-17 -16/-19 -22/-23 -46/-47 -48/-49 TOTAL 1.1 2.214.1 5.416.334.814.112.0 92 (; () a 9 0.26.5 Mean No. of Hours with Temperature No. Obs. Element (X) 19.310.872 52.7 3.943 ≥73 F | ≥80 F | ≥93 F 44964 1774 ≤ 0 F ≤ 32 F 256462 Dry Bulb 4844 92 Wet Bulb 120422 3318 36.1 2.885 92 10.1 93 Dew Point

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TONER 1200-1400 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 | \* 31 64/ 63 62/ 61 607 59 2.2 3.2 3.2 2.2 1.1 3.2 58/ 57 56/ 55 1.1 3.2 3.2 3.2 3.2 54/ 53 4.3 4.3 1.1 52/ 51 3.2 2.2 1.1 3.2 53/ 49 47 48/ 1.1 46/ 45 2.2 1.1 3.2 44/ 43 1.1 2.2 42/ 41 1.1 43/ 39 22 301 37 35/ 33 19 34/ 33 32/ 31 30/ 29 27 281 26/ 25 23 22/ 21 20/ 19 17 18/ 15/ 15 14/ 13 12/ 11 10/ ₹ 9 8/ 27 0/ -1 -21 -3 Element (X) Mean No. of Hours with Temperature Rel. Hum. Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER STATION 1200-1400 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 74 25 . 26 27 . 28 29 . 30 23 D.B./W.B. Dry Bulb Wet Bulb Dew Point -6/ -7 -12/-13 -14/-15 -18/-19 -42/-43 -43/-49 7.512.910.820.417.212.9 9.7 O Mean No. of Hours with Temperature Element (X) 239 81999 25.714.900 93 1 32 F Dry Bulb 4942 53.1 5.392 93 265292

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 79 MAY STATION NAME STATION 1500-1700 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 62/ 61 1.1 1.1 58/ 57 2.2 4.3 2.2 1.1 2.2 11 56/ 1.1 7.410.9 54/ <del>5</del>3 2.2 3.3 2.2 8 . 2.2 2.2 2.2 53/ 49 2.2 2.2 1.1 481 47 46/ 45 1.1 2.2 1.1 43 1.1 2.2 1.1 2.2 42/ 41 43/ 37 38/ 36/ 35 1.1 34/ 33 32/ 31 33/ 29 20/ 27 25 24/ 23 221 21 19 17 15 14/ 13 127 11 13/ 8/ 6/ 4/ 2/ Element (X) 10 F 267 F 273 F 280 F 293 F Dry Bulb Wet Bulb Dew Poin

GLOSAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

JOO1 MAUI OPTICAL SITE HI NORTH TOWER

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## **PSYCHROMETRIC SUMMARY**

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GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 20001 MAUI OPTICAL SITE HI NORTH TOWER YEARS STATION STATION HAME ( PAGE 1 1300-2000 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL (F) 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 = 31 D.B./W.S. Dry Bulb Wet Bulb Dew Point 0 1.2 1.1 58/ 57 4.3 56/ 55 C 4.3 54/ 53 6.5 1.1 15 15 10.8 52/ 51 1.1 3.2 1.1 50/ 49 3.2 3.2 10 ( ) 48/ 47 5.5 46/ 45 3.2 1.1 44/ 43 ( 42/ 41 1.1 1.1 1.1 4u/ 39 36/ 37 2.2 1.1 () 34/ 33 22 1.1 72/ 31 301 53 20/ 27 26/ 25 221 21 19 18/ 17 14/ 13 0 10/ G 61 5 21 1 0.26.5 -3 -21 -5 -6/ Mean No. of Hours with Temperature 0 USAFETAC Rel. Hum. ± 0 F s 32 F Day Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SINE HI NORTH TOWER 00001 STATION 1800-2000 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Poin 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 -12/-13 -14/-15 -16/-17 -18/-19 -20/-21 -22/-23 -26/-27 -44/-45 -45/-47 TOTAL 2.2 2.2 3.2 4.3 6.5 8.622.628.020.4 93 0.26.5 Mean No. of Hours with Temperature No. Obs. Rel. Hum. 64392 187 20.217.013 ≤ 32 F 223727 93 Dry Bulb 4535 48.8 5.301 93 33.4 3.466 Wet Bulb 104840 3106 93 48.0 26900 38 • n 93.0 93 SLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 2100-2300 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOYAL TOTAL D.B./4.B. Dry Bulb Wet Bulb Dew Point 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | = 31 (F) 12/ 71 1.1 3.2 56/ 55 5.4 54/ 53 1.1 1.1 6.5 3.2 527 51 3.2 53/ 49 2.4 6.5 3.2 12 12 487 47 1.1 6.512.9 461 45 1.1 1.1 1.111.8 3.2 3.2 44/ 43 42/ 41 1.1 4.17 39 1.1 3.2 38/ 37 1.1 361 35 34/ 33 16 29 27 25 25/ ~2/ 21 23/ 19 18/ 17 15 14/ 13 12/ 11 1:1/ 8/ 6/ 5 27 -21 -4/ -5/ Element (X) Mean No. of Hours with Temperature ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F 50F 532F Rel. Hum. Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY 3 USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 YEARS C WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 | D.B./W.B. Dry Builb | Wet Builb | Dew Point £ (F) -16/-11 -12/-13 -14/-15 -15/-17 -18/-19 -22/-23 -24/-25 -26/-27 -28/-29 43 -44/-45 TOTAL 2.2 8.6 4.312.921.532.315.1 1.1 1.1 93 C 93 () 280E Element (X) Mean No. of Hours with Temperature USAFETAC 44632 267 F 273 F 280 F 293 F Rel. Hum. 1634 17.613.156 93 10F ≤ 32 F 47.8 5.324 32.2 3.507 214964 4444 93 97648 93 Wet Bulb 2996 93 Dew Point 93 Devi GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUL OPTICAL SITE HI NORTH TOWER 00001 MAY STATION NAME STATION 0 TOTAL TOTAL

D.B. W.S. Dry Bulb Wet Bulb Dew Peir WET BULB TEMPERATURE DEPRESSION (F) () 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 72/ 71 64/ 53 521 61 59 1.3 57 42 58/ 561 55 53 2.5 91 2.0 51 1.3 2.2 5.11 49 47 5.7 100 48/ 100 40/ 45 2.0 5.3 43 44/ 92/ 41 40/ 39 361 37 351 35 34/ 33 159 321 31 125 33/ 29 121 28/ 27 361 25 21 23 22/ 31 21 1 = / 17 40 14/ 13 35 10/ 36 37 5/ ΣX² ZX Meen No. of Hours with Temperature Element (X) No. Obs. Rel. Hum 267 F 273 F 280 F 293 F Dry Bulb Wet Bulb Dew Point

( GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 00001 HAY YEARS HTHOM ([ PAGE 2 ALL HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL TOTAL

1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 231 D.B./W.B. Dry Bulb Wet Bulb Dew Pein Temp. ( (F) 29 -2/ -3 -4/ 17 -6/ -7 -8/ -9 14 -13/-11 -12/-13 -14/-15 -16/-17 -18/-19 10 -20/-21 -22/-23 -26/-27 -33/-31 -72/-33 -12/-43 -44/-45 -46/-47 -43/-49 -53/-51 -52/-53 742 5.110.912.320.825.616.2 4.d 742 TOTAL 742 ₹ 0.26-5 (OL Mean No. of Hours with Temperature No. Obs. Element (X) ≥47 F = 73 F | ≥80 F | ≥93 F 445291 14979 27.213.887 742 10F ≤ 32 F 49.6 5.275 34.1 3.952 742 744 1848819 36831 Dry Bulb 744 25338 742 273.7 Wet Bulb 876824 Dew Point

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GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -18/-19 -22/-23 -24/-25 -26/-27 -33/-31 -32/-33 O -36/-37 -44/-45 TOTAL 5.6 3.3 4.4 3.928.933.3 €. 9 d No. Obs. Element (X) Mean No. of Hours with Temperature O Rel. Hum. 46170 14.317.672 90 47.9 3.767 Dry Bulb 208143 4315 90 Wet Bulb 90633 2847 90 -378 -9.819.751 90.0 90

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC 00001 HAUI OPTICAL SITE HI NORTH TOWER STATION YEARS 0 0300-0500 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEFRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 D.B./W.B. Dry Bulb Wet Bulb Dew Peint (F) 54/ 53 52/ 51 1.1 1.1 10.1 C 49 3.4 48/ 47 4 . 5 1.132.6 2.2 1.1 45 1.1 1.1 3.4 7 . 9 15 44/ 43 4 . 5 421 41 1.1 2.2 1.1 39 46/ 3.4 37 38/ 36/ 35 1.1 34/ 33 321 31 36/ 29 28/ 27 ?6/ 25 24/ 53 221 21 18/ 17 16/ 15 14/ 13 13/ 8/ 4/ 21 -21 -4/ -6/ -8/ -9 -10/-11 -12/-13 0.26.5 -14/-15 -16/-17 -18/-19 -25/-21 Element (X) Mean No. of Hours with Temperature No. Obs. Rel. Hum. Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER YEARS STATION STATION HAME 0300-0500 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 > 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -22/-23 -24/-25 -26/-27 -28/-29 -30/-31 -38/-39 -44/-45 1 TOTAL 4.5 3.412.4 6.746.1 3.4 5.6 1.1 89 88 89 THIS FORM ₹ ĝ 0.26.5 Element (X) Mean No. of Houzs with Temperature 1560 ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. 64706 17.920.605 ≤ 32 F 89 10F Total Dry Bulb 194279 4149 46.6 3.121 89 2788 31.3 2.871 68.8 Wet Bulb 88062 89 90 Dew Point 89

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER STATION 0600-0800 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Pein (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 58/ 5/ 1.1 1.1 56/ 55 5.7 54/ 2.2 4.4 52/ 51 50/ 49 1.1 48/ 47 46/ 45 44/ 43 1.1 2.3 421 41 1.1 39 46/ 38/ 37 36/ 35 34/ 33 32/ 31 281 27 25/ 25 24/ 23 :2/ 21 20/ 19 18/ 17 15 16/ 14/ 13 17/ 11 13/ -4/ - 87 -19/-11 -12/-13 No. Obs. 10F 1 32 F Dry Bulb Wet Bulb Dew Point

GLOSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 0600-0800 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -16/-17 -18/-19 -20/-21 -22/-23 -24/-25 -26/-27 -28/-29 -30/-31 -34/-35 - 38/-39 TOTAL 4.4 2.2 1.1 3.3 4.410.d10.d31.120.d12.2 1.1 90 90 Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. 1405 267 F | 273 F | 280 F | 293 F 51847 15.618.333 90 1 32 F Dry Bulb 216029 4393 48.8 4.242 90 32.4 2.860 95271 2917 Wet Bulb 90 50.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER YEARS STATION STATION NAME 0900-1100 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 1.1 1.1 1.1 2.2 62/ 61 60/ 59 2.2 3.3 3.315.6 3.3 501 57 13 1.1 55 4.1 5.6 5.6 53 19 54/ 2.2 8.9 19 4.4 52/ 51 54/ 49 2.2 1.1 1.1 48/ 47 1.1 46/ 1.1 1.1 44/ 43 1. 2.2 41 42/ 39 407 2 . 2 1. 38/ 37 361 35 34/ 33 31 30/ 29 27 231 25 24/ 23 :21 21 537 19 15/ 17 16/ 15 14/ 13 12/ 11 E/ 11 37 -41 -6/ FOE4 Element (X) Mean No. of Hours with Temperature USAFETAC Rel. Hum. 4 0 F ≤ 32 F Dry Bulb Dew Paint

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER YEARS STATION WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1. 2 3. 4 5. 6 7. 8 9. 13 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wer Bulb Dew Paint (F) -12/-13 -14/-15 -15/-17 -18/-19 -25/-21 -24/-25 -34/-35 -36/-37 TOTAL 3.314.417.830.011.1 3.3 6.7 90 90 ğ Meen No. of Hours with Temperature Elyment (X) Rel. Hum. 16.316.605 53.2 4.783 35.3 2.748 48453 1467 90 10 F ≤ 32 F ≥73 F > 80 F > 93 F Dry Bulb 256631 4787 90 3181 90 9.0 90 113103 Wet Buib 90

GLUBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

00001 MAUI OPTICAL SITE HI NORTH TOWER 1200-1400 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp. TOTAL D.E./W.B. Dry Bulb Wet Bulb Dew Pein (F) 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 > 31 64/ 63 1.1 597 59 2.2 5 . 6 58/ 57 56/ 55 3.313.3 5.6 2.2 22 14 1.1 22 54/ 53 521 51 1.1 1.1 5.6 2.2 1.1 537 49 1. 48/ 47 1.1 1. 46/ 45 44/ 43 2.2 42/ 41 39 38/ 37 36/ 35 21 23 341 33 32/ 31 30/ 29 28/ 27 25 201 22/ 21 201 18/ 17 16/ 12/ 10/ 3/ 61 4/ -5 -4/ -31 -9 Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. Dry Bulb Wet Bulb Dew Point

0-26-5 (OL A) PEYNED PREVIOUS EDITIONS

SAFETAC FORM 0.24.5 (O)

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 JUN MCHTH Œ. WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 - 2 3 - 4 5 - 6 7 - 8 7 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 > 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin -12/-13 -14/-15 -16/-17 -18/-19 -23/-21 - 2<u>7 - 23</u> -28/-29 -32/-33 -34/-35 -35/-37 TOTAL 1.1 4.4 6.7 7.8 8.9 8.910.021.120.011.1 90 20 ã õ 0.26.5 No. Obs. Mean No. of Hours with Temperature Element (X) **VFETAC** 51888 1666 ≤ 32 F Dry Bulb 260839 4825 53.6 4.933 90 90 Wet Bulb 119875 3268 36.3 3.689 91) 11.0 90

SLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 01001 1500-1700 HOURS (L. S. T.) TOTAL WET BULB TEMPERATURE DEPRESSION (F) Temp. TOTAL 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 -31 D.S./W.B. Dry Bulb Wet Bulb Dew Poin 2.2 61 45/ 59 C 58/ 57 1.1 3.4 3.4 55/ 55 5.6 5.6 53 2.2 7. 17 17 521 2.2 50/ 49 49/ 47 46/ 45 1. 44/ 43 2.3 42/ 41 1.1 407 39 38/ 37 35 36/ 34/ 33 31 3 3/ 29 23/ 27 261 25 23 21 18/ 17 14/ 13 13/ 6/ 9 21 6/ -8/ -13/-11 Element (X) Mean No. of Hours with Temperature Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 -12/-13 -14/-15 -16/-17 -13/-19 -20/-21 -24/-25 -32/-33 -34/-35 TOTAL 5.411.212.410.411.213.525.4 5.6 89 39 9 Rel. Hum. 51570 1656 18.615.358 89 10F ≤ 32 F 246161 Dry Bulb 4563 52.4 4.587 89 12.1 90.0 3164

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GLOSAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER STATION NAME PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1.2 3.4 5.6 7.8 9.10 11-12 13-14 15-15 17-18 19-20 21-22 23-24 25-26 27-28 29-30 231 D.8-W.B. Dry Bulb Wet Bulb Dew Pein (F) -16/-17-18/-19 -20/-21 -22/-23 -24/-25 -26/-27 -28/-29 -34/-35 -36/-37 -38/-39 TOTAL 1.1 2.3 8.0 8.0 3.421.935.610.3 87 વ 0.26.5 Element (X) Mean No. of Hours with Temperature Rel. Hum. 52334 1406 16.218.462 97 ≤ 32 F ≥ 73 F ≥ 80 F Dry Bulb 214189 4297 49.4 4.770 87 94434 2854 32.9 3.068 90 Wet Bulb 87 46.6 87 90.0 Dew Point

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GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## **PSYCHROMETRIC SUMMARY**

MAUL OPTICAL SITE HI NORTH TOWER 2100-2300 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | a 31 | D.B./W.B., Dry Bulb | Wet Bulb | Dew Paint (F) -26/-27 -28/-29 -32/-33 -34/-35 -36/-37 2.3 1.1 5.7 4.6 5.7 8.d 3.414.944.8 8.d TOTAL 87 87 Element (X) Mean No. of Hours with Temperature Rel. Hum. 52310 1358 15.619.020 ≤ 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F 87 5 0 F 87 Dry Bulb 204487 4201 48.3 4.355 Wet Bulb 89333 2781 32.0 2.254 87 57.9 90 Dew Poin 90

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GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMAR** AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER YEARS PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 3 31 D.B./W.B. Dry Bulb Wet Bulb Dow Po (F) 64/ 63 52/ 51 .3 1.1 1.8 2.2 537 59 15 15 58/ 57 40 4 d 7.7 1.3 • 6 1 • 4 1.0 81 50/ 55 81 54/ 53 4.1 52/ 2.011.7 3.2 7.2 51 114 114 57/ 49 103 103 .311.1 114 46/ 47 1.4 2.5 114 45 1.d 46/ 1.1 3.5 69 41 44/ 43 1.0 1.3 41 42/ 41 18 43/ 39 . 1 38/ 37 361 35 34/ 33 172 31 154 33/ 29 23/ 27 26/ 25 22/ 21 19 17 18/ 16/ 15 12/ 11 11/ 8/ 4/ 6/ -1 -2/ Element (X) Mean No. of Hours with Temperature ≥73 F | ≥80 F | ≥93 F Rel. Hum. ≤ 32 F Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOSY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 HAUI OPTICAL SITE HI NORTH TOWER STATION STATION NAME ALL HOURS (L, S, T.) TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 23 D.B./W.B. Dry Bulb Wet Hulb Dew Point (F) -4/ -5 18 13 -6/ -7 -8/ -9 18 -19/-11 35 -12/-13 39 -14/-15 -16/-17 51 -16/-19 42 -20/-21 -22/-23 -24/-25 -26/-27 -25/-29 10 -33/-31 -32/-33 -34/-35 -30/-37 -38/-39 -44/-45 TOTAL 1.4 2.2 3.2 5.6 5.6 8.8 6.922.325.014.0 712 712 ₹ õ Œ ក រុំ ជ រុំ No. Obs. Mean No. of Hours with Temperature C 11894 267 F 273 F 280 F 293 F Rel. Hum. 418978 16.617.721 712 10F ≤ 32 F 720 Dry Bulb 1890774 35530 50.d 5.00d 712 1.0

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC HOUI OPTICAL SITE HI NORTH TOWER 79-80 PAGE 1 0000-0200 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 3 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 62/ 61 63/ 59 561 55 4/ 53 52/ 51 • ₽ 6.5 50/ 49 6.8 1.7 47 48/ 1. 6.8 46/ 45 44/ 43 3. 42/ 41 40/ 39 1. 35/ 37 35 34/ 33 321 31 33/ 29 28/ 27 24/ 23 201 19 18/ 17 15 14/ 13 121 11 101 8/ 4/ -2/ -6/ -8/ Element (X) Mean No. of Hours with Tomperature Rel Hum. Dry Bulb Dew Point

١£. GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER Œ 0000-0200 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin (F) -10/-11 -12/-13 -14/-15 -15/-17 -18/-19 -20/-21 -22/-23 -24/-25 TOTAL 7.6 5.9 7.416.922.919.5 118 118 118 118 ₹ õ No. Obs. Element (X) ≤ 32 F ≥ 67 F ≥ 73 F ≥ 80 F ▶ 93 F Rel. Hum. 124197 2873 118 ± 0 F 24.321.532 49.1 4.489 Dry Bulb 487246 5798 118 4094 34.7 5.777 43.3 Wet Bulb 145946 118 Dew Point 54018 80.4

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GLOSAL CLINATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION HAME 0300-0500 HOURS (L. S. T.) PAGE 2 Temp. WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 | D.B./W.B. Dry Bulb Wet Bulb Dew Point -8/ -9 -10/-11 -12/-13 -14/<u>-1</u>5 -16/-17 -18/-19 -23/-21 -24/-25 TOTAL 1.710.0 6.7 4.2 5.0 4.220.824.220.0 . 8 1.7 120 120 120 120 9 No. Obs. Element (X) Meen No. of Hours with Temperature O CALL Rel. Hum. 124143 2858 23.821.709 129 ≤ 32 F 267 F 273 F 280 F 293 F 296302 5936 Dry Bulb 49.5 4.735 120 34.7 6.002 Wet Bulb 149056 45.7 4168 120 93 Dew Point 50988 120

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER PAGE 1 0600-0800 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) Temp TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Buib Wet Buib Dow Poin 66/ 65 64/ 63 621 61 1.7 607 59 56/ 2.5 56/ 55 54/ 53 5.0 5.0 3.410.9 52/ 51 50/ 49 5.0 3. 48/ 47 46/ 45 2.5 1. 1.7 2.5 44/ 43 3.1 41 42/ 40/ 38/ 36/ 35 34/ 33 32/ 31 36/ 29 28/ 27 261 25 221 21 707 18/ 17 167 14/ 13 12/ 10/ 8/ 6/ 2/ 0/ Element (X) Mean No. of Hours with Temperature Rel. Hum. 10F 1 32 F ≥ 80 F ≥ 93 F Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC MAUL OPTICAL SITE HI NORTH TOWER 79-80 0600-0800 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 > 31 D.B./W.B. Dry Builb Wet Builb Dew Point -4/ -5 -6/ -7 -8/ -9 -16/-11 -12/-13 -14/-15 -16/-17 -15/-19 -?3/--21 -24/-25 TOTAL 5.0 5.015.124.420.2 119 119 119 0 Ć. 0 ğ 0.26.5 Û Element (X) Mean No. of Hours with Temperature ٠, No. Obs. 23.422.132 50.7 5.236 123210 2790 119 10 F ≤ 32 F 309701 6039 Dry Bulb 119 35.5 6.161 Wet Bulb 154698 4228 119 36. Dew Point 780

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 PAGE 1 0900-1100 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp. (F) TOTAL ť. 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin 1.8 64/ 53 C 62/ 61 1.8 60/ 59 58/ 57 G 56/ 55 54/ 53 52/ 51 C 50/ 40 48/ 47 2.7 46/ 45 44/ 43 41 421 40/ 39 37 36/ 36/ 35 33 32/ 31 29 3U/ 28/ 27 25 17 18/ 15 14/ 13 107 0/ g 21 1 -27 -4/ -5 ZX, No. Obs. Element (X) Mean No. of Hours with Temperature G 10F s 32 F Dry Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH

AIR WEATHER SERVICE/MAC

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MAUI OPTICAL SITE HI NORTH TOWER 90001 79-80 PAGE 2 Temp WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.8 - W.B. Dry Bulb Wet Bulb Dew Point -6/ -7 -8/ -9 -10/-11 -12/-13 -14/-15 -16/-17 -18/-19 TOTAL 5.4 5.4 5.4 5.411.717.118.014.4 1.8 111 111 X • 25.522.975 54.2 5.107 Element (X) ΣX, Zχ No. Obs. Mean No. of Hours with Temperature 129963 2825 ≥67 F = 73 F = 80 F = 93 F Rel. Hum. 111 ≤ 0 F ≤ 32 F Dry Bulb 329251 6019 111 2.5 38.4 6.097 Wet Bulb 157811 4263 111 13. 93 Dew Point 50040

GLOSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 79-80 STATION 1200-1400 PAGE 1 HOURS IL. S. T.) WET EULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1.2 3.4 5.6 7.8 9.10 11.12 13.11 15.1, 17.18 19.20 21.22 23.24 25.26 27.28 29.30 a 31 D.B./W.S. Dry Bulb Wet Bulb Dew Point (F) 72/ 71 73/ 59 58/ 57 54/ 53 1. 52/ 61 1.7 1.7 57 56/ 55 2.5 23 23 1.7 6.0 6.0 6.9 3.4 53 2.4 52/ 51 2.4 2.6 49 3.4 48/ 47 46/ 45 421 41 39 33/ 37 35/ 35 24 33 32/ 31 3.1 29 27 23 22/ 21 14/ 13 õ 11/ 11 10/ 67 Element (X) Mean No. of Hours with Temperature O Rel. Hum. ± 0 F 1 32 F Dry Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER Œ 1200-1400 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Ü 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B./W.B. Dry Bulb Wet Bulb Dew Pein (F) √/ -1 C -4/ -5 -6/ -7 -8/ -9 O -10/-11 -12/-13 -14/-15 -16/-17 -32/-33 TOTAL 6.9 5.2 8.6 8.6 6.0 7.812.918.114.7 116 116 ã **60**L Element (X) Mean No. of Hours with Temperature Rel. Hum. ≤ 32 F 267 F 273 F 280 F 293 F 142031 314 27.122.25 116 ± 0 F 55.5 5.091 39.8 6.532 Dry Bulb 360734 6442 116 Wet Bulb 189070 4622 116 8.5 93 Dew Point

SLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 STATION NAME 1500-1705 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 -31 D.B. W.B. Dry Bulb Wet Bulb Dew Point (F) 70/ 75 72/ 71 77/ 69 66/ 65 64/ 63 62/ 61 €5/ 59 1.8 1.9 55/ 57 50/ 55 2.6 21 21 54/ 53 23 32/ 51 1.0 2.6 1.8 2.6 €. 4 • 4 50/ 49 1.8 46/ 47 46/ 45 44/ 43 42/ 41 39 40/ 37 361 35 34/ 33 O 32/ 31 3./ 29 28/ 27 26/ 25 23 72/ 21 23/ 19 18/ 17 ₹ 15/ 15 ğ 14/ 13: 10/ 7 8/ 5/ 4/ Mean No. of Hours with Temperature Element (X) ZX, ΣX No. Obs. ≤ 32 F Rel. Hum. 10F Dry Bulb Dew Point

0 GLOSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 U 1500-1700 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 9/ -1 O -4/ -5 -6/ -7 -8/ -9 () -13/-11 -12/-13 -14/-15 (1 -16/-17 -33/-31 TOTAL 5.3 9.611.413.214.013.414.9 2.6 1.8 114 114 ( 114 114 0.26.5 (OL Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. 9985 2539 23.118.521 114 339402 54.3 5.220 Dry Bulb 6192 114 36.1 6.023 Wet Bulb 169628 4344 114 13.9

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 03001 MAUL OPTICAL SITE HI NORTH TOPER YEARS PAGE 1 1800-2000 HQURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 .31 D.B./W.B. Dry Bulb Wet Bulb Dew Peint (F) 66/ 65 64/ 63 52/ 61 63/ 59 58/ 57 2.5 56/ 55 3.4 54/ 53 1. 52/ 51 2.5 .8 1. 5.9 49 sq • 8 48/ 47 1.7 46/ 45 44/ 43 .8 1.7 421 41 40/ 39 38/ 37 36/ 35 34/ 33 321 31 35/ 29 28/ 27 25 26/ 221 21 20/ 19 18/ 17 16/ 13 14/ 12/ 11 ã 14/ 5 6/ 4/ 41 1 -1 3/ Element (X) ΣX2 Mean No. of Hours with Temperature Rel. Hum. Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAJI OPTICAL SITE HI NORTH TOWER 79-80 STATION STATION NAME WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL O 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) -2/ -3 -4/ -5 -6/ -7 -8/ -9 -15/-11 -12/-13 -14/-15 -16/-17 -18/-19 -25/-21 -24/-25 TOTAL 1.7 8.4 6.7 2.5 4.715.114.316.821.8 119 119 No. Obs. Mean No. of Hours with Temperature Element (X) ₹, 23.921.467 50.7 4.757 35.7 6.023 119 122491 2847 10F s 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. Dry Bulb 308123 5029 119 156066 4250 119 32.8 Wet Bulb 93 80.5 55802 37d 7.320.469 119 43.0 97 Dew Point

GLOSAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 STATION NAME O PAGE 1 2100-2300 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 52/ 61 54/ 59 587 57 56/ 55 54/ 53 1. 1. 1. 2.5 52/ 51 3.3 2.5 8.3 2 d 2.5 18 19 40/ 47 45/ 2.5 3.3 2.5 11 44/ 43 42/ 41 • 8 3.3 40/ 39 1.7 38/ 37 36/ 35 34/ 33 32/ 31 33/ 28/ 27 36/ 25 241 23 22/ 21 21/ 19 16/ 17 14/ 13 12/ 11 8/ 6/ 3/ -4/ Element (X) Mean No. of Hours with Temperature 1 32 F ≥ 93 F Dry Bulb Wet Bulb Dew Point

GLOSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME (i) PAGE 2 2100-2300 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Poin -8/ -9 -10/-11 -12/-13 -14/-15 -16/-17 -18/-19 -20/-21 -24/-25 TOTAL .8 5.8 9.9 7.4 7.411.615.716.521.5 1.7 121 121 Element (X) No. Obs. 2964 24.519.937 120302 ≥ 93 F Rel. Hum. s 32 F 297532 5970 49.3 4.983 121 Dry Bulb 34.9 5.843 151483 4223 121 41.5 93 Dew Point

SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER STATION NAME PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Poin 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 > 31 76/ 75 72/ 71 701 69 68/ 67 66/ 65 64/ 63 25 527 61 1.0 6u/ 59 31 1.4 58/ 57 56/ 55 92 148 148 54/ 53 1.9 C' 52/ 51 1.3 1.9 7.d 152 152 53/ 49 4.2 130 130 43/ 47 118 114 5 C 45/ 45 1.5 58 58 1.6 44/ 43 2.d 51 15 42/ 41 . Î 27 27 79 40/ 39 37 85 30/ 36/ 35 105 341 33 136 34/ 31 167 36/ 29 37 28/ 27 23 6/ 25 24/ 23 .27 21 20/ 19 3 16/ 17 ತ 15/ 15 14/ 13 28 12/ 11 20 13/ 7 0/ Mean No. of Hours with Temperature Element (X) ≥67 F = 73 F = 80 F = 93 F ± 0 F ≤ 32 F Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY 9 USAFETAC AIR WEATHER SERVICE/HAC MAUI OPTICAL SITE HI NORTH TOWER C WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 19 61 4/ 2.1 21 17 -21 -3 23 ~4/ -5 -6/ -7 27 -0/ -9 -13/-11 52 -12/-13 -14/-15 .54 6 -16/-17 -18/-19 -26/-21 -22/-23 -24/-25 -33/-31 - 32/ - 33 TOTAL .4 1.4 7.5 6.5 5.3 6.4 8.314.518.719.7 7.1 3.2 938 938 9 3 938 ₹ ತ C No. Obs. Mean No. of Hours with Temperature Element (X) X المريخ USAFETAC 24.521.335 938 ± 32 F Rel. Hum. 986193 22937 10F Dry Bulb 252829 48425 51.6 5.497 938 36.5 6.317 233.7 1283758 34192 938 744 Wet Bulb Dew Point 464530 8176 938

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER STATION NAME 0000-0200 PAGE 1 HOURS (L. S. T.) WET BULS TEMPERATURE DEPRESSION (F) TOTAL D.B. W.B. Dry Bulb Wet Bulb Dew Point (F) 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 64/ 53 2,0 62/ 61 65/ 59 1.0 2.0 1.0 2. 55/ 55 2.0 1.0 1.0 54/ 53 1.0 1.0 2.d 2 • d 2 • d 2.9 52/ 51 3.9 1.0 5.9 1.0 1.0 1.0 4.9 2,0 55/ 49 2.3 1.0 3.9 3.9 2.0 48/ 47 1. 5.9 1. 46/ 45 2.0 2.d 2.d 44/ 43 1.0 2.0 1.0 42/ 41 1.0 1.0 40/ 39 38/ 37 361 35 34/ 33 32/ 31 35/ 29 261 27 26/ 25 24/ 23 22/ 21 237 19 18/ 17 15 15/ 12/ 11 10/ 57 4/ ?/ Element (X) Mean No. of Hours with Temperature Rel. Hum. Dry Bulb Wet Bulb

SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY LSAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 00001 PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 15 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | 231 | D.B./W.B. Dry Bulb | Wer Bulb | Dew Point (F) -4/ -5 -6/ -7 -10/-11 -12/-13 -16/-17 -18/-19 -20/-21 TOTAL 2.0 7.4 6.412.711.815.712.7 9.8 9.8 3.9 6.9 102 102 C 2 52 USAFETAC Element (X) No. Obs. Mean No. of Hours with Temperature ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. 29.619.539 128210 3024 102 ≤ 0 F ≤ 32 F Dry Bulb 267953 5201 51.0 5.221 102 143990 3792 37.2 102 Wet Bulb Daw Point 78. 102

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 0300-0500 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. C 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 23 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 54/ 63 2.0 62/ 61 59 661 1.0 1.0 2.0 58/ 57 1.0 2.0 56/ 55 1.0 1.0 1.0 2.0 1.0 3.9 2.0 1.0 2.0 4.9 2.0 54/ 53 1.0 2.0 2.0 2.9 52/ 51 2.9 3.9 2.9 2.9 50/ 49 48/ 47 2.9 1.0 46/ 45 3.9 2. q 1.0 43 1.0 1.0 1.0 0 42/ 41 39 43/ 1.0 38/ 37 35 361 34/ 33 327 31 33/ 29 28/ 27 26/ 25 24/ 23 22/ 21 19 18: 17 16/ 15 12/ 11 ₹ 87 Š 4/ 37 -21 No. Obs. Element (X) Mean No. of Hou t with Temperature ≥ 67 F | -: 73 F | ≥ 80 F | ≥ 93 F Rel. Hum. 4 0 F ≤ 32 F Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 0300-0500 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 15 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -4/ -5 -6/ -7 -8/ -9 -10/-11 -12/-13 -14/-15 -10/-17 -18/-19 -25/-21 -24/-25 TOTAL 1.0 1.0 3.9 6.9 6.9 8.014.713.712.711.8 9.8 8.8 102 102 192 (OL A) 0.26.5 G FOEW JUL 64 Element (X) No. Obs. Mean No. of Hours with Temperature c 2ඩුදි USAFETAC Rel. Hum. 109225 2705 26.519.266 ≤ 32 F ≥ 67 F = 73 F = 80 F = 93 F 102 ± 0 F 53.4 5.110 38.1 5.158 13.917.558 Dry Bulb 293731 5449 102 15111 389 Wet Bulb 7. 102 50755 102 78.4

GLOSAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/HAC <u>00001</u> 79-80 MAUI OPTICAL SITE HI NORTH TOWER AUG STATION STATION NAME PAGE 1 0600-0801 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) Temp. TOTAL TOTAL (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B./W.B. Dry Builb Wes Builb Dev Jeins 1.0 3.0 2.0 2.0 52/ 51 ( 1 59 1.0 4.0 Fe/ 57 1.0 1.0 1.0 12 12 56/ 55 2 • d 1.d 2.d 4.0 1.0 4.0 2.0 2.0 4.0 2.0 53 541 3.0 4.0 3.0 2.0 19 19 32/ 51 4.0 3.0 3.0 5.1 2.0 5/ 1.q 42/ 47 2.0 1.0 46/ 45 3.0 1.0 1.0 44/ 43 421 41 4. / 39 37 23 36/ 35 34/ 33 18 30/ 31 27 25 24/ 23 221 21 2.1 19 13/ 17 16/ 15 14/ 13 1./ 31 7 õ -:/ -3 Element (X) ZX Mean No. of Hours with Temperature () V ≥67 F = 73 F = 80 F = 93 F Rel. Hum. ≤ 0 F ≤ 32 F Dry Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

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Wet Bulb		1447			37		37.9				99			5.6					1		
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 STATION PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Peint (F) 21 0/ -1 -6/ -7 -8/ -9 -19/-11 -12/-13 -14/-15 3.4 1.d 2.d 1.d e. 213. 312. 216. 315. 3 7. 110. 2 8. 2. d TOTAL Element (X) Mean No. of Hours with Temperature 2338 ≥ 73 F ≥ 80 F ≥ 93 F 29.018.770 ± 0 F 1 32 F ≥ 67 F Rel. Hum. 116362 98 56.1 5.570 98 93 311571 5499 Dry Bulb 164742 3992 40.7 4.685 93 Wet Bulb 98 59166 1908 93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR NEATHER SERVICE/MAC

DJGG1 MAUI OPTICAL SITE HI NORTH TOWER

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## PSYCHROMETRIC SUMMARY

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79-80

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC ( TOUD1 MAUI OPTICAL SITE HI NORTH TOWER
STATION HAME 79-80 WET BULB TEMPERATURE DEPRESSION (F) TOTAL (. (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 3 1 D.B./W.B. Dry Bulb Wet Bulb Dew Point -4/ -5 -6/ -7 TOTAL 2.0 2.0 5.112.210.216.320.414.3 2.0 1.0 98 C. 0 8 0 26:00 Element (X) Mean No. of Hours with Temperature Rel. Hum. 133990 33.415.886 3276 98 10F ≤ 32 F 267 F 273 F 280 F 293 F Dry Bulb 324395 5513 57.3 5.475 98 93 181340 77408 Wet Bulb 4196 42.8 4.165 98 93 Dew Point

SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 1500-1700 HOURS (L. S. T.) TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 7-/ 69 56/ 65 54/ 63 1.9 1.0 2.9 €3/ 59 1.0 1.0 1.9 1.9 2.9 1.9 1.9 3.9 1.9 K3/ 57 1.d 1.d 1.0 1.013.6 56/ 3.9 2.9 24 4/ 53 52/ 51 3.9 1.9 2.9 1.9 5 / 49 1.5 48/ 47 1.9 1.0 44/ 45 44/ 43 42/ 41 43/ 39 35/ 37 35 : 3/ 31 321 X3/ 29 27 20/ 25 24/ 23 22/ 21 20/ 19 15/ 17 16/ 15 14/ 13 14/ 11 g 3/ 47 21 Element (X) ΣX2 Mean No. of Hours with Temperature ± 0 F ≤ 32 F Rel. Hum. Dry Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 03001 1500-1700 HOURS (L. S. T.) PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) Temp. TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 = 31 -8/ -9 TOTAL 9.716.521.417.5 9.7 103 103 C O 0.26-5 (OL A) No. Obs. Element (X) Mean No. of Hours with Temperature Rel. Hum. 140456 3486 103 33.814.843 1 32 F 322317 5743 55.8 4.541 Dry Bulb 103 Wet Bulb 182959 4319 103 78072 2500 Dew Point

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GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME

## PSYCHROMETRIC SUMMARY

PAGE 2

WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 > 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -6/ -7 -12/-13 100 TOTAL 1.d 8.d 9.d12.d15.d17.d10.d10.d12.d 4.d 2.d 100 100 100

Element (X)	ZX2	ZX	X	F. 1	No. Obs.			Mean No.	f Hours wit	h Temperatu	· ( 0	
Ret. Hum.	132957	3217	32.2	17.252	100	10F	≤ 32 F	≥ 57 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	266430	5136	51.4	5.169	100							93
Wet Bulb	146930	3808	38.1	4.405	100		9.3					9:
Dew Point	53120	1904	17.0	13.053	100	11.2	83.7					9.3

USAFETAC

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 93661 MAUL OPTICAL SITE HI NORTH TOWER 79-80 PAGE 1 2100-2300 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | \* 31 | D.B./W.B. Dry Bulb Wet Bulb Dew Poin 53/ 59 1.0 58/ 57 2.d 55/ 1.0 55 3.0 1 • q 1.0 54/ 53 3.0 4.d 1.d 51 3.Q 521 54/ 49 3.0 47 1.0 3 . d 2.0 2.0 44/ 43 1.0 3.0 42/ 41 4.0 39 1.0 40/ 30/ 37 35 34/ 33 321 31 3./ 29 25/ 27 761 .4/ 23 22/ 21 19 16/ 17 15 14/ 13 1./ 11 - 11 Mean No. of Hours with Temperature No. Obs. Element (X) ≤ 0 F 1 32 F Dry Bulb Wet Bulb Dew Point

MAUI OPTICAL SITE HI NORTH TOWER PAGE 2 WET BULB TEMPERATURE DEPRESSION (F)

1 · 2 | 3 · 4 | 5 · 6 | 7 · 8 | 9 · 10 | 11 · 12 | 13 · 14 | 15 · 16 | 17 · 18 | 19 · 20 | 21 · 22 | 23 · 24 | 25 · 26 | 27 · 28 | 29 · 30 | × 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Point WET BULB TEMPERATURE DEPRESSION (F) -10/-11 -12/-13 -14/-15 -18/-19 TOTAL 2.d13.d11.d 8.d12.d19.d12.d 3.d16.d 4.d 100 10d 100 Element (X) No. Obs. Mean No. of Hours with Temperature USAFETAC 150791 Rel. Hum. 331 33.220.325 100 10F ± 32 F 267 F 273 F 280 F 293 F

PSYCHROMETRIC SUMMARY

GLOBAL CLIMATOLOGY BRANCH

AIR WEATHER SERVICE/MAC

USAFETAC

Dry Bulb

Wet Bulb

Dew Point

250392

140713

4978

3711

1702

49.8

5.112

37.1 5.503

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100

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SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER Temp. WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Poin (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 74/ 73 70/ 69 68/ 67 56/ 65 63 641 52/ 61 60/ 59 58/ 57 99 99 56/ 2.1 1.4 120 120 F 4/ 110 110 521 51 2.5 2.6 3.0 116 116 2.2 1.1 67 67 48/ 47 2.7 55 46/ 45 45 1.2 44/ 43 26 26 77 1,0 41 421 40/ 132 127 ₹6/ 35 117 33 76 :21 31 30/ 29 45 287 27 61 241 23 22/ 201 19 3t 25 21 14/ 13 12/ 11 25 25 9 6/ Element (X) Mean No. of Hours with Temperature Rel. Hum. 4 0 F ⊴ 32 F ≥67 F = 73 F = 80 F = 93 F Total Dry Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 26 27 - 28 29 - 30 > 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 4/ -5 22 -7 -5/ -9 -10/-11 -14/-15 -16/-17 -18/-19 -73/-21 -24/-25 TOTAL 6.210.312.716.114.511.5 862 802 802 802 ₹ ತ No. Obs. Mean No. of Hours with Temperature Element (X) USAFETAC Rel. Hum. 1005483 24441 30.518.239 902 ≠ 32 F ≥ 67 F ≥73 F ≥80 F ≥93 F Dry Bulb 2317745 42875 53.5 5.658 802 744

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Wet Bulb

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GLOSAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

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PAGE 2 9000-9200

Temp						WET	BULB .	TEMPER	ATURE	DEPRE	SSION (	F)						TOTAL		TOTAL	
(F)	0	1.2	3.4	5.4	7 . 8								23 . 24	25 . 24	27 . 28	29 . 30	è 31	D.B./W.B.	Dry Bulb	Wet Bulh	Dew Pair
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Element (X)		ΣX,			ZX		X	₹.		No. Ob							ours wit	h Temperat	ure		
Rel. Hum.		31	4001		62		37.5	21.8	59		70	± 0 I		1 32 F	≥ 67	F	73 F	≥ 80 F	≥ 93	:	Total
Dry Bulb		4.0	1295			66	48.0	7.3	14		70			1.6							9
Wet Bulb			6731			25	36.6	7.1	98		70		$\Box$	25.5							9
Dew Point		10	6503	!	31	91	18.8	16.6	0.6	1	70	13	. 3	65.7					1	$\neg \neg$	9

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 60001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 STATION 0300-0500 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 6 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 (F) D.B./W.B. Dry Bulb Wet Bulb Dew Poin 69/ 67 64/ 63 57/ 51 1.2 6\_/ 59 1 . F 1.2 53/ 2.9 1.2 2.7 2.9 1.8 24 50/ 1.8 1.9 1.2 54/ 1.2 1.8 1.4 1.2 121 5 / 49 1.4 1.2 1.4 1.2 11 4×/ 47 4.5 44/ 2.3 44/ 43 427 41 1.2 1.2 2.9 10 22 19 4.7 .4 1.2 3.5 37 1.2 1.2 35 301 34/ 33 501 31 29 201 27 21/ 25 24/ 23 72/ 21 10 15/ 17 16/ 15 14/ 13 3 11 1 ./ 7 0.26.5 1ن 5 4/ :/ 1 Element (X) ZX Mean No. of Hours with Temperature Rel. Hum. Dry Bulb Wet Bulb

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C GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC • 30001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 O PAGE 2 0300-0500 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL C 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D.B./M.B. Dry Bulb | Wet Bulb | Dew Point (F) -21 -3 -4/ -5 C-5/ -7 -6/ -9 -1//-11 (, -12/-13 -14/-15 -22/-23 -29/-29 4.1 5.3 7.615.614.617.6 7.0 8.2 5.3 3.6 3.6 3.6 3.6 TOTAL 171 171 171 ₹ Element (X) No. Obs. Mean No. of Hours with Temperature C (O) .0 Rel. Hum. 348831 6596 171 10F ≤ 32 F 267 F 273 F 280 F 293 F 1.1 Dry Bulb 441266 8548 50.9 9.064 171 262789 38.4 7.778 6571 Wet Butb 171 23.7 93 127663 Dew Point 61.6

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 PAGE 1 0500-0800 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 64/ 63 60/ 59 2.4 1.2 1.4 50/ 57 • 6 4.9 2.4 55 501 1.2 1.6 1.2 1.6 • 6 1.8 1.2 ~4/ 53 2.4 1.2 ¢2/ 51 1.2 2.4 1.4 1.2 1.2 57 49 1.2 48/ 47 2. 1.8 11 40/ 45 44/ 43 1.8 1.2 42/ 41 1.8 39 1.0 5.4 • 4 38/ 37 3:/ 35 1.8 3 5 1 31 1 29 27 16 °≥/ 25 24/ 23 22/ 21 2 1/ 19 15/ 17 10/ 15 14/ 13 17/ 11 a 7 13 õ 4/ 11 ò -1 -1 Element (X) ΣX2 Zχ No. Obs. Mean No. of Hours with Temperature ≥67 F = 73 F = 80 F = 93 F 10F ± 32 F Total Dry Bulb Yus Bulb Dew Point

SLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER at. PAGE 2 WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Poin (F) -4/ -5 -5/ -9 () -14/-15 -71/-21 TOTAL 1.2 3.6 9.516.117.314.910.7 8.3 4.2 6.7 168 168 O 168 168 C 0.26-5 (OL A) Element (X) Mean No. of Hours with Temperature C CO. \*73 F | \*80 F | \*93 F Rel. Hum. 297778 6206 36.920.257 158 ≤ 0 F ≤ 32 F 416060 8276 49.3 7.880 1.1 90 Dry Bulb 168 27.3 246277 6309 37.5 168 90 Dew Point 3392 111442 64.8 93

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUL OFTICAL SITE HI NORTH TOWER 79-80 0900-1100 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 63/ 67 1.1 46/ 65 64/ 53 1.1 1.1 2.3 62/ 61 2.9 2.3 59 2.9 2.3 2.3 1.7 50/ 57 50/ 5.5 2.3 2.9 54/ 53 2.3 51 251 51/ 49 45/ 2.3 46/ 45 44/ 43 2.3 1.7 2.3 11 1.7 427 41 39 4.3/ 13 33/ 37 75/ 35 34/ 33 321 31 11 29 27 26/ 25 24/ 23 22/ 21 25/ 19 17 16/ 15 a 11 9 13 4/ 3 Element (X) Mean No. of Hours with Temperature Rel Hum ≥ 80 F ≥ 93 F 5 0 F s 32 F ≥ 67 F ≥ 73 F Dry Bulb Wer Bulb

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

MAUI OPTICAL SITE HI NORTH TOWER

Temp						WET	BULB	TEMPER	ATURE	DEPRE	SSION (	F)						TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8								23 - 24	25 - 26	27 - 28	29 - 30	× 31		Dry Bulb	Wet Bulb	Dew P
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Element (X)		Σχ²			ZX		X	<b>₹</b>		No. Ob								h Temperat			
Rel. Hum.			2739			61	37.5	18.9	<u>6g</u>		75	± 0 F		± 32 F	<b>≥ 67</b>		73 F	≥ 80 F	→ 93 F	F 1	Total
Dry Bulb			1442			66		7.6			75				1	• q		<u> </u>			
Wet Bulb			5932			,00	41.1	7.4	68		75			16.5							
Dew Point		15	0311		43	97	25.1	15.1	33	1	75	3	• 6	55.5			_				

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 20001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 YFARS STATION STATION NAME PAGE 1 1200-1403 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL D.B. W.B. Dry Bulb Wet Bulb Dew Point (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | ≥ 31 68/ 67 66/ 65 1.2 54/ 63 2.3 54/ 59 2. 2.9 25 25 1.2 59/ 57 50/ 55 2. 1.2 2.3 11 11 54/ 53 2.3 52/ 51 1.2 1.4 11 50/ 49 1. 1 d 47 2.3 18 46/ 45 44/ 43 1.2 1.2 1.2 42/ 41 40/ 39 1.2 11 37 76/ 35 32/ 31 29 27 23/ 26/ 25 24/ 23 22/ 21 23/ 19 17 16/ 15 14/ 13 3 12/ 11 9 11/ 3/ 6/ 4/ 3 ZX Element (X) ΣX1 No. Obs. Mean No. of Hours with Temperature • 4 0 F ≤ 32 F Dry Bulb Wet Bulb Dew Point

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER
STATION NAME 00001 STATION PAGE 2 1200-1400 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 - 12 13 - 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 31 D.8./W.B. Dry Bulb Wet Bulb Dew Point (F) 0/ -1 -4/ -5 -8/ -9 -12/-13 -14/-15 -16/-17 TOTAL 2.3 8.718.612.810.516.315.7 7.6 3.5 172 172 172 174 No. Obs. Mean No. of Hours with Temperature Element (X) £ 2 €3 USAFETAC ≥ 93 F 33436 6876 40.018.65 172 ≤ 0 F s 32 F > 80 F 9397 522999 54.6 7.495 172 90 Dry Bulb 14.1 Wet Bulb 323922 7342 42.7 7.844 172 4793 17703 49.2 Dew Point

GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUL OPTICAL SITE HI NORTH TOWER 79-80 SEP 0 PAGE 1 1500-1700 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 ) D.S. W.B. Dry Bulb Wet Bulb Dew Poin (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 54/ 63 62/ 51 ( ) 59 1.7 58/ 57 2.3 3.4 4 . d 55/ 55 1.7 2.3 3.4 ī. 22 1. F4/ 53 1. 521 51 2.3 13 1.1 13 49 45/ 47 2.3 11 1.1 1.1 19 14/ 43 2.9 1.1 42/ 41 39 381 37 35 33 341 31 27 · 6/ 34/ 23 19 10/ 17 1c/ 15 14/ 13 12/ 3/ 4/ Element (X) Mean No. of Hours with Temperature 1 32 F 10F ≥67 F | ≥73 F | ≥80 F | ≥93 F Rel. Hum. Dry Bulb Wet Bulb

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 00001 79-80 STATION 1500-1700 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) -4/ -5 -14/-15 -15/-17 TOTAL 2.3 8.616.415.413.715.414.3 175 175 0.26-5 (OL A) C No. Obs. Ó Element (X) Mean No. of Hours with Temperature 39.217.926 53.2 6.978 Rel. Hum. 324433 175 ≥67 F ≥ 73 F 6859 10F 1 32 F Dry Bulb 503979 9312 175 41.4 7.255 308854 7242 175 90 159233 Dew Point 52.5

GLOBAL CLIMATOLOGY BRANCH USAFETAC **PSYCHROMETRIC SUMMARY** AIR HEATHER SERVICE/MAC 20001 MAUI OPTICAL SITE HI NORTH TOWER 79-80 1800-2000 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) Temp. TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 62/ 61 1.2 60/ 59 56/ 57 1.2 1. 56/ 55 2.3 54/ 53 1. 2. 3. 5.3 2.3 2.5 27 27 5.2 4.1 521 51 1. 1. 2.3 50/ . 6 47 1.7 1.2 46/ 45 1. 44/ 43 42/ 41 13 48/ 39 36/ 37 2.5 1. 21 36/ 35 34/ 33 32/ 31 307 29 28/ 27 26/ 25 24/ 23 22/ 21 20/ 19 18/ 17 16/ 15 14/ 13 12/ 11 10/ 8/ 5 4/ 21 1 -21 Element (X) Mean No. of Hours with Temperature Rel. Hum. 10F ± 32 F 267 F 273 F 280 F 293 F D USAFET/ Dry Bulb Wet Bulb

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**()** GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/HAC MAUI OPTICAL SITE HI NORTH TOWER PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 > 31 D.8./W.B. Dry Bulb Wet Bulb Dew Peint (F) -6/ -7 -8/ -9 -10/-11 -12/-13 -16/-17 -13/-19 -22/-23 -28/-29 TOTAL 8.117.421.112.8 9.3 7.6 4.7 1.2 8.7 172 172 172 O 9 0.26.5 No. Obs. Element (X) Moon Ho, of Hours with Temperature 35.620.171 Rei. Hum. 28/330 172 ± 32 F 267 F 273 F 280 F 293 F 612d 5 0 F 427678 8490 49.4 7.095 172 Dry Bulb 6427 3322 37.4 6.837 Wet Bulb 248147 172 90 108472 172 Dew Point 90

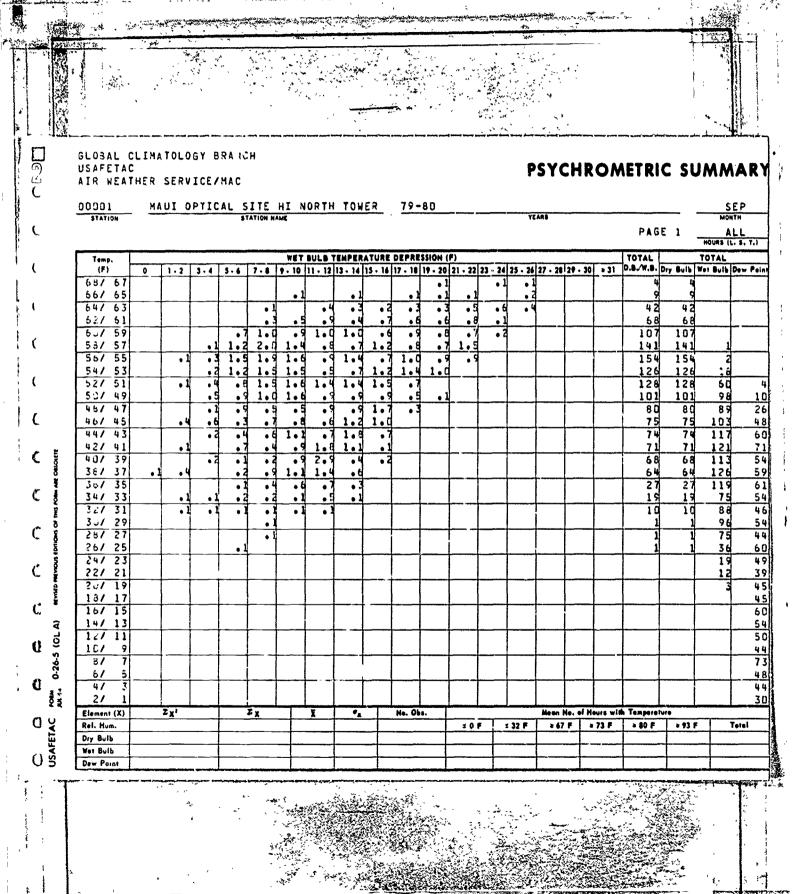
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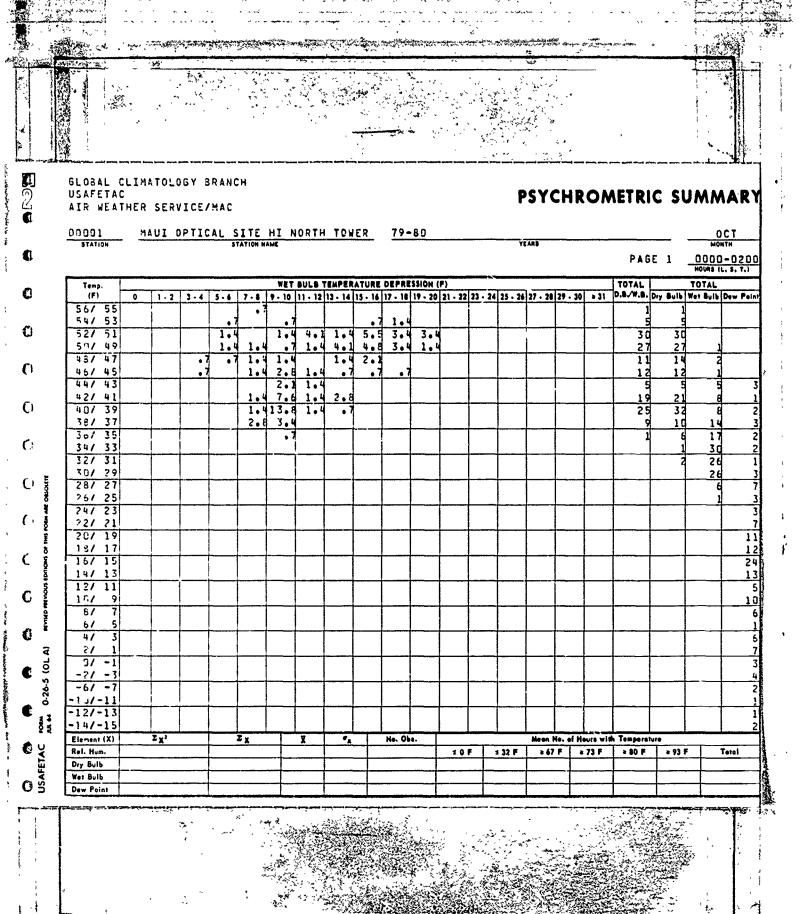
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GLOBAL CLIMATOLOGY BRANCH LSAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 93091 MAUI OPTICAL SITE HI NORTH TOWER STATION STATIC" NAME 2100-2300 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) Temp. TOTAL TOTAL 7 2 3 4 5 6 7 8 9 10 11 - 12 13 - 34 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 36 27 - 28 29 - 30 + 31 D.S./W.B. Dry Bulb Wet Bulb Dew Point (F) 63/ 59 58/ 57 561 55 1.2 3.0 2 . 4 541 53 1.2 52/ 51 3.0 2. 1.8 1.8 3.0 3.0 1.2 27 27 1.2 2.4 50/ 49 1.8 1.7 3.0 2. 2. 1.8 44/ 43 1.2 2. 421 41 40/ 39 1.2 3.5 37 33/ 1. 36/ 35 1.8 33 31 30/ 29 2\$1 27 251 25 24/ 23 521 21 17 14/ 13 121 11 19/ 7 6/ 6/ 5 3 ē 0/ -1 -21 -3 -4/ Element (X) Mean No. of Hours with Temperature Rel. Hum. # 0 F Dry Bulb Wet Bulb Dew Point

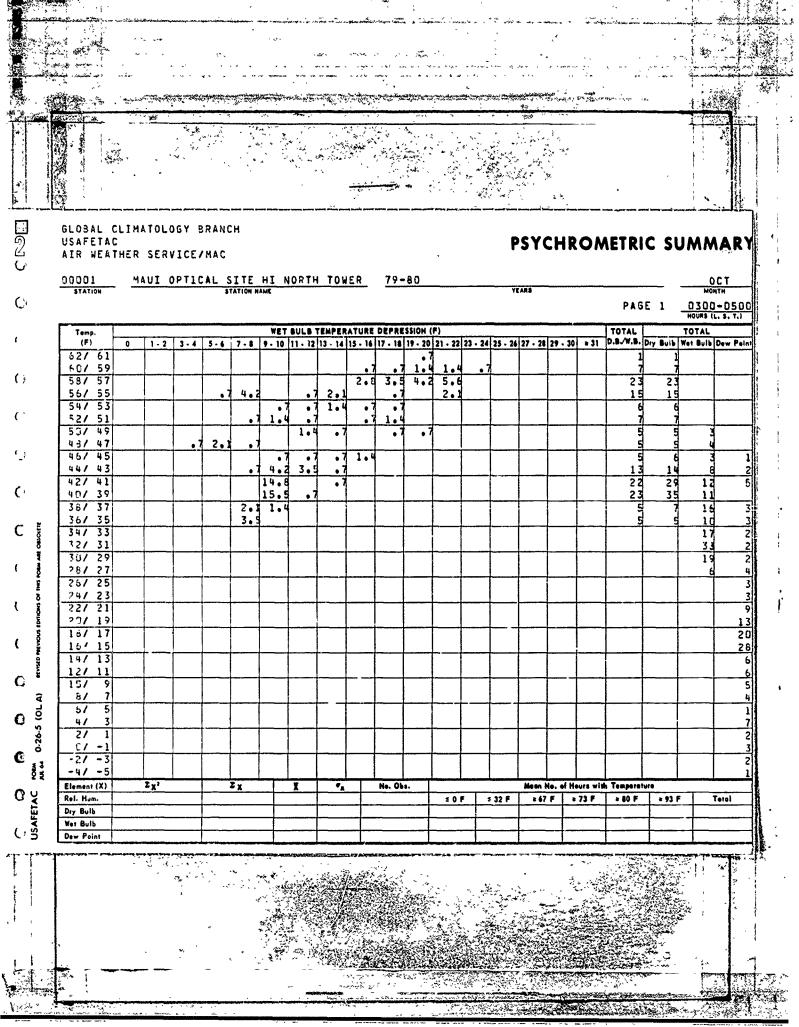
0 GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC ATR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER PAGE 2 2100-2300 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 | D.B./M.B. | Dry Bulb | Wet Bulb | Dew Point (F) -8/ -9 -10/-11 -14/-15 -30/-31 -32/-33 8.913.119.615.512.5 7.1 TOTAL 3.610.1 168 168 169 9 0.26-5 No. 95s. Mean No. of Hours with Temperature Element (X) Rel. Hum. 259019 33.819.976 ± 0 F ≤ 32 F 558 163 48.1 7.213 36.1 6.992 Dry Bulb 377682 808 2.1 168 Wet Bulb 226758 28 . 4 <u>5</u>360 168



GLOBAL CLIMATOLOGY BRAICH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 SÉP STATION PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Pein (F) 68/ 67 66/ 65 52/ 58/ 1.5 1.9 1.q 55/ 1.5 52/ 1.6 53/ 45/ 8 0 46/ 44/ 1.8 • 40/ 2.5 35/ 35/ 18/ 14/ 3/ 6/ 4/ ZX No. Obs. Mean No. of Hours with Temperature Element (X) ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F Dry Bulb Wet Bulb Dew Point



0 GLOSAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC HAUL OPTICAL SITE HI NORTH TOWER 79-80 U PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL O D.B./W.B. Dry Bulb Wet Bulb Dew Pein (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 TOTAL 4.110.334.511.011.013.6 9.0 4.6 145 () () () U  $\mathbf{C}_{i}$ ₹ õ C 0.26-5 0 FORM AT 64 4 C 2554 USAFETAC No. Obs. Mean No. of Hours with Temperature Element (X) Rel. Hum. 187131 473 32.714.995 145 5 0 F ≤ 32 F  $\sim$ 342227 7431 166 Dry Bulb 45.1 5.552 1.1 172608 4958 34.2 4.624 Wet Bulb 145 37.8 93 15.511.628 Dew Point 2253

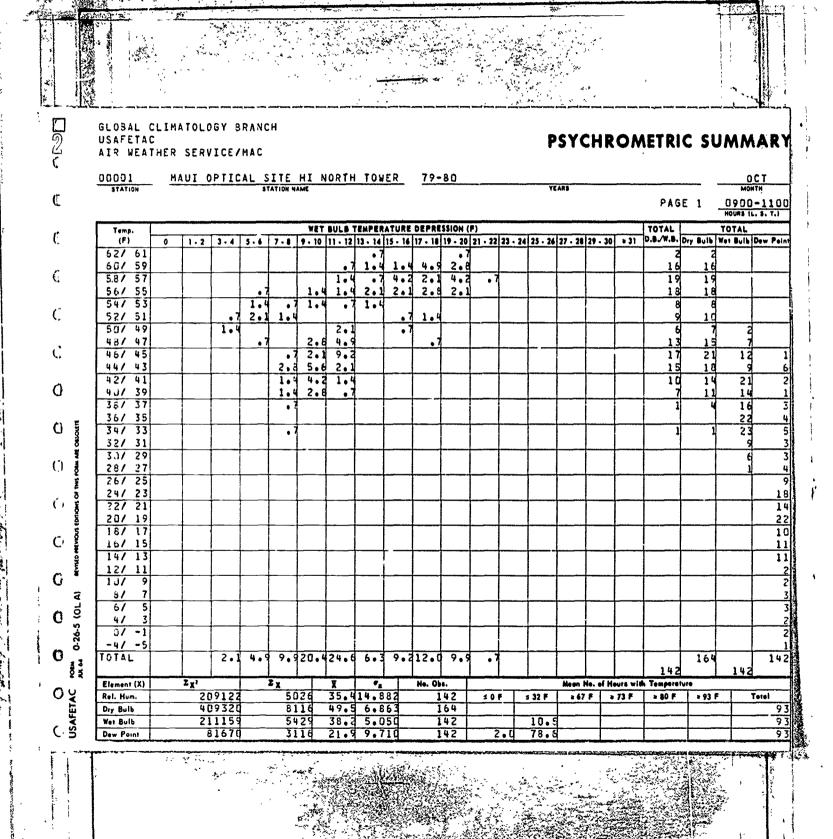


Û GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/HAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B./W.B. Dry Bulb Wet Bulb Dew Paint (F) -6/ -7 -8/ -9 -12/-13 TOTAL 2.812.038.7 8.9 6.3 6.3 7.7 7.0 9.2 142 142 Element (X) 2 0 F s 32 F Rel. Hum. 188237 4709 33.215.083 142 Dry Bulb 7722 371004 46.8 7.557 165 93 35.5 5.476 17.211.507 18304 5039 38.0 142

Compared to the second of the GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 0 PAGE 1 0600-0800 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Pain | (F) 60/ 59 58/ 57 (è 56/ 55 2.8 54/ 53 2.1 2.1 52/ 51 4. 50/ 49 48/ 47 46/ 45 9.9 42/ 41 43/ 6.3 1. C 38/ 37 35 36/ 34/ 33 0 321 30/ 29 28/ 27 23 22/ 21 20/ 18/ 12/ 10/ 8/ -2/ -6/ -7 10/-11 Element (X) \*47 F \*73 F \*80 F \*93 F Dry Bulb Wet Bulb

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<b>5</b>	Wet Bulb		17	16329		4 9	959	34.	9 4.	725	1	42			32.7		士					_
	Dew Point			7066			118	17.	10.6			42	3	• 9	85.1							



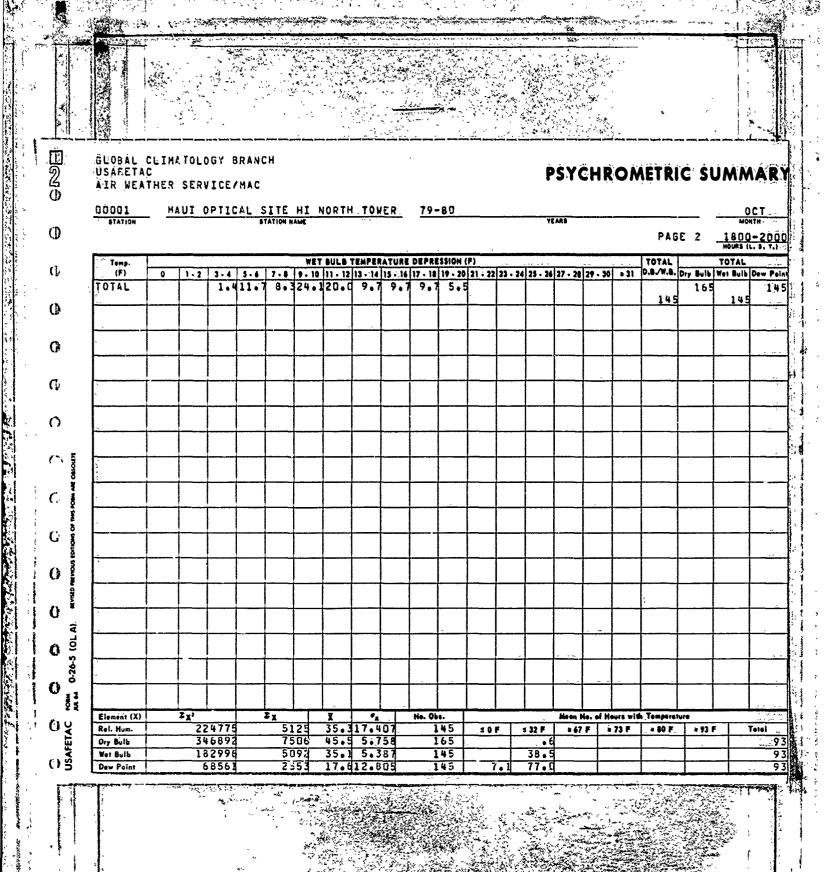
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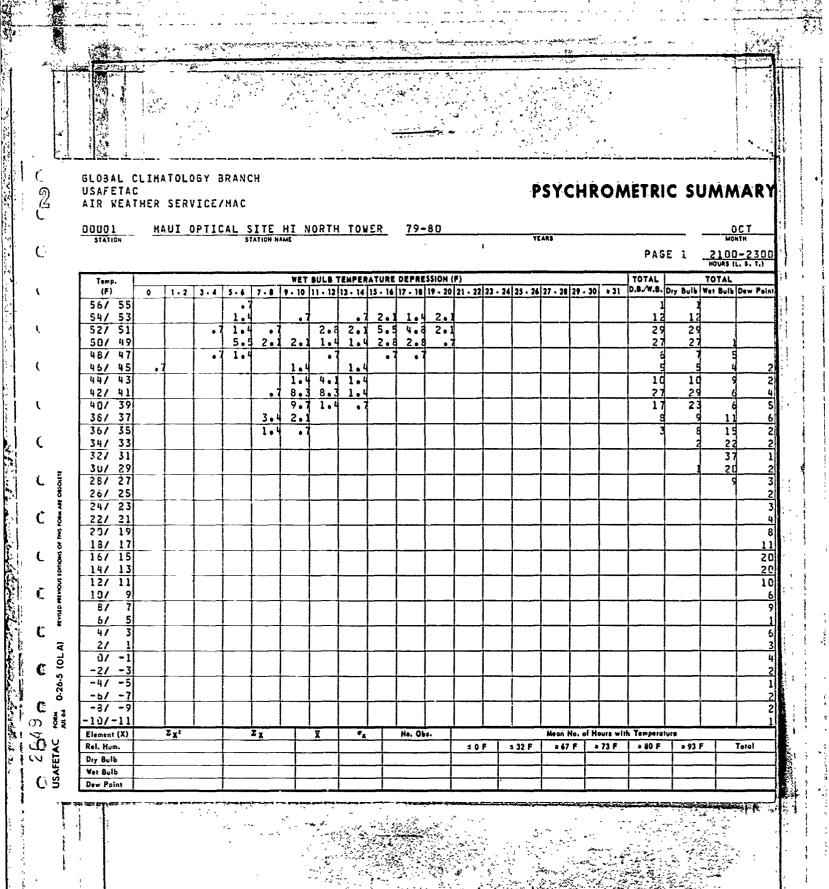
GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 0 1200-1400 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL Temp. (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 3 31 D.B./W.B. Dry Bulb Wet Bulb Dow Point 70/ 69 58/ 67 62/ 61 60/ 59 58/ 57 2.8 56/ 55 53 51 50/ 49 2.1 2.8 1.4 48/ 47 46/ 45 5.6 44/ 43 6. 42/ 41 40/ 39 38/ 37 36/ 34/ 33 32/ 31 30/ 29 28/ 27 26/ 25 24/ 23 22/ 21 20/ 18/ 17 16/ 15 14/ 13 8/ -2/ -3 TOTAL 6.319.621.013.314.0 9.1 Mean No. of Hours with Temperature No. Obs. Element (X) 5148 8533 217028 1 32 F 36-014-94 143 44553 51.4 6.469 155 Dry Bulb Wet Bulb 233299 5729 40.1 5.158 143

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GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR NEATHER SERVICE/MAC  00001  MAUI OPTICAL SITE HI NORTH TONER  79-80  TEAMS  WET BULLS YEAPERATURE DEPRESSION (P)  (P)	PAGE 1  TOTAL  D.8./W.S. Dry Su  2  8 42 42 42 65 85	OCT MONTH  ALL HOURS (L. S. TOTAL LIB Wes Buils Dew 1 2 4 7 4
USAFETAC   AIR WEATHER SERVICE/MAC   DOUBLE   MAUL OPTICAL SITE HI NORTH TOWER   79-80   YEARS   Temp.	PAGE 1  TOTAL  D.8./W.S. Dry Su  2  8 42 42 42 65 85	OCT MONTH  ALL HOURS (L. S. TOTAL LIB Wes Buils Dew 1 2 4 7 4
SAFETAC   AIR MEATHER SERVICE/MAC   DODD1   STATION   MAINE   STATION   MAINE   TOWER   T9-80   Temp.   Temp	PAGE 1  TOTAL  D.8./W.S. Dry Su  2  8 42 42 42 65 85	OCT MONTH  ALL HOURS (L. S. TOTAL LIB Wes Buils Dew 1 2 4 7 4
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 79-80 PAGE 2 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 . 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D.B./M.B. Dry Bulb | Wet Bulb | Dew Paint -2/ -3-4/ -5 -5/ -7 -8/ -9 -10/-11 -12/-13 -14/-15 8.927.018.0 9.710.0 9.5 5.1 TOTAL 1147 1147 ğ 2 2 Element (X) Mean No. of Hours with Temperature 34.715.787 Rel. Hum. 1668174 39822 267 F 273 F 280 F 293 F 1147 ≤ 32 F Dry Bulb 3008997 62389 47.3 6.633 1319 2.3 744 1550656 41704 213.4 Wet Bulb 36.4 5.473 1147 744 575791 39.6 631.1 744 Dew Point

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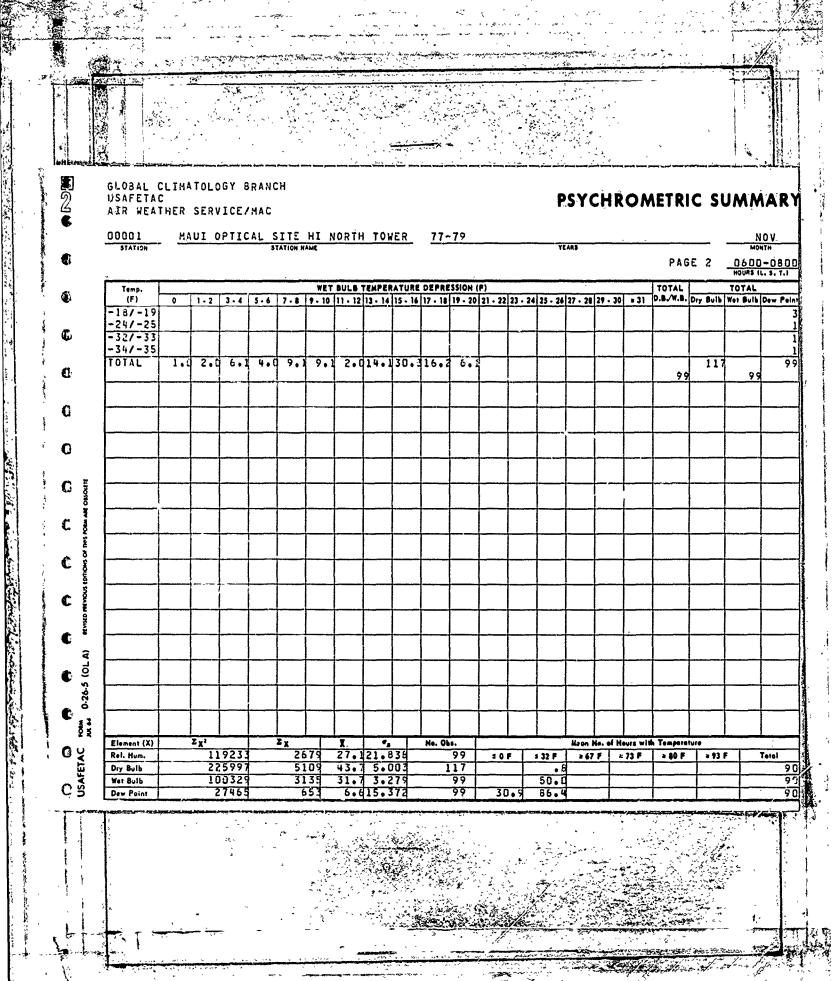
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0 GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC MAUL OPTICAL SITE HI NORTH TOWER 77-79 00001 STATION STATION HAME 0 0300-0500 HOURS (c. s. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 21.24 25.26 27.28 29.30 31 D.B./W.B. Dry Bulb Wet Bulb Dew Peint (F) 50/ 49 11.1 48/ 47 3.0 1.015.2 2.0 5.1 5.1 46/ 45 1.0 21 24 44/ 43 2.0 2.d 42/ 41 3.0 5.1 2.0 2 3.4 38/ 37 2.0 1.0 1.0 2.0 11 36/ 35 1,1 33 17 30/ 29 0 28/ 27 25/ 25 24/ 23 0 221 21 20/ 19 18/ 17 12/ 11 10/ 7 3/ 6/ 4/ 0/ 10 -2/ -3-8/ -9 -13/-11 -12/-13-14/-15 -16/-17 Mean No. of Hours with Temperature Element (X) O 200 USAFETAC ≥67 F = 73 F = 80 F = 93 F Dry Bulb Wet Bulb Dew Point

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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER STRVICE/MAC NOV 00001 MAUI OPTICAL SITE HI NORTH TOWER YEARS STATION PAGE 1 TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 = 31 D.B./W.B. Dry Bulb Wet Bulb Dew Peint (F) 1.0 56/ 55 4 . 0 52/ 51 2.0 5.1 50/ 49 1.0 3.3 48/ 47 46/ 4.0 1.0 1.011.1 2.0 44/ 43 42/ 41 2.0 3.0 4.0 2.0 2.0 2.0 40/ 39 2.0 38/ 37 1.0 2.0 1.4 36/ 35 34/ 33 1.0 1.0 25 32/ 31 30/ 29 28/ 27 26/ 25 24/ 23 221 21 20/ 17 16/ 16/ 15 14/ 13 10/ 8/ 6/ 4/ 11 -2/ -3 -4/ -5 <u>-6/</u> -7 -8/ -12/-13 -14/-15 Element (X) Mean No. of Hours with Temperature 267 F 273 F 280 F 293 F Rel. Hum. 10F ≤ 32 F Dry Bulb Wet Bulb Dew Point

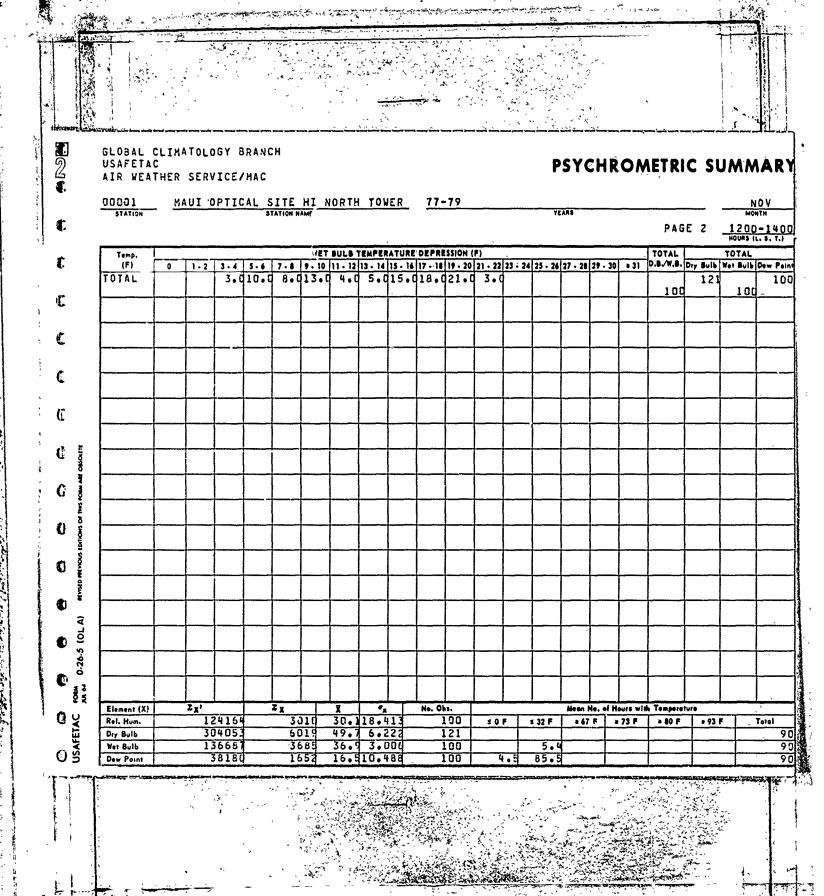
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 0900-1100 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL Temp. 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 | D.B./M.B. Dry Buib | Wet Buib | Dew Pein (F) 60/ 59 1.0 1.0 58/ 57 4.5 56/ 55 8.1 12 12 54/ 53 7.1 3.0 52/ 51 1.0 5.1 2.0 13 50/ 49 6.1 48/ 47 1.0 8 . 1 13 46/ 45 3.0 6. 3.0 44/ 43 5. 42/ 1.0 1.0 1.0 39 2.0 1.0 40/ 2.0 1.0 38/ 37 36/ 35 34/ 33 31 32/ 30/ 29 27 28/ 26/ 25 23 21 551 16/ 15 13 12/ 11 10/ 8/ 6/ 4/ ಠ 0/ -1 -2/ -3 -6/ -7-3/ -9 -22/-23 No. Obs. Element (X) Mean No. of Hours with Temperature Rel. Hum. Dry Bulb Wet Bulb Dew Point

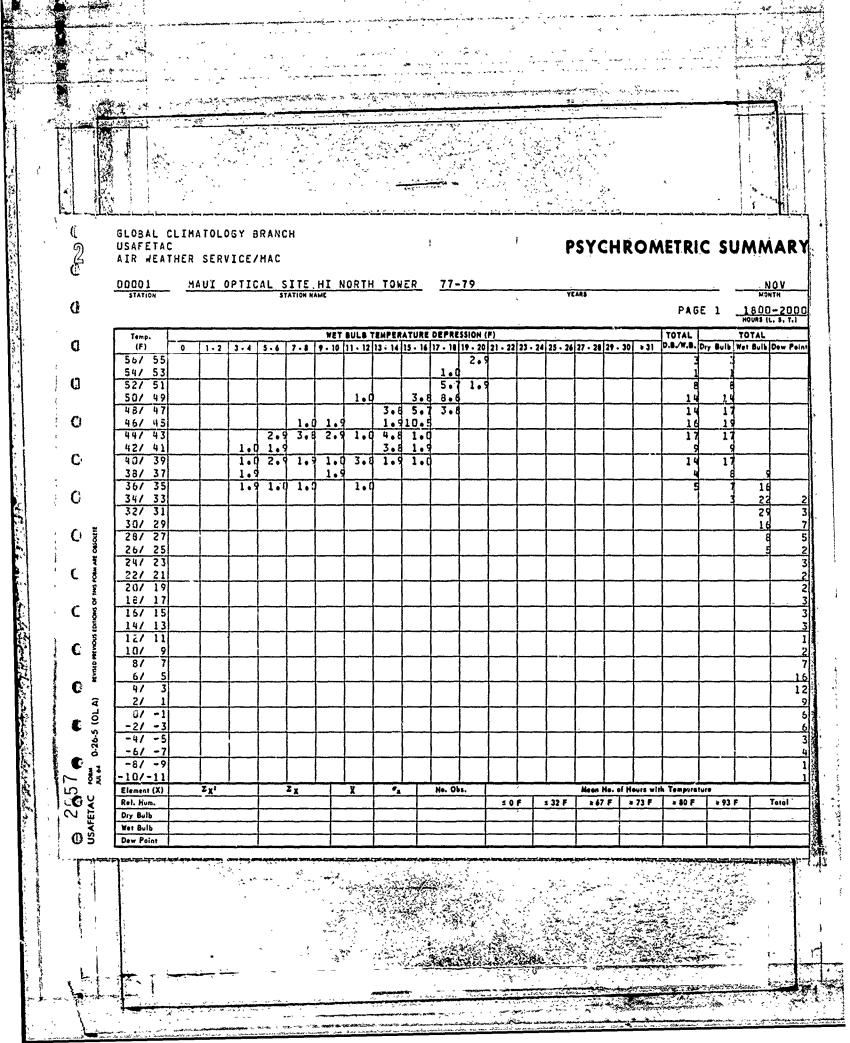
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 77-79 1500-1700 Nours (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTA Temp. (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 3 3 D.B./W.B. pry Bulb Wet Bulb Dew Point 62/ 61 1. 60/ 59 U 58/ 57 3.9 1.0 1.0 56/ 55 7.8 54/ 53 1.9 1.9 U 52/ 51 50/ 49 1.0 3.9 3.0 48/ 47 46/ 45 1.9 1.0 2. 2.9 1.9 1.0 1.d 44/ 43 3.9 3.9 421 41 2.9 40/ 39 38/ 37 36/ 35 34/ 33 32/ 31 30/ 29 28/ 27 26/ 25 24/ 23 221 21 201 18/ 17 14/ 13 12/ 10/ 8/ 6/ 21 9/ -1 -2/ Element (X) Mean No. of Hours with Temperature Dry Bulb Wet Bulb

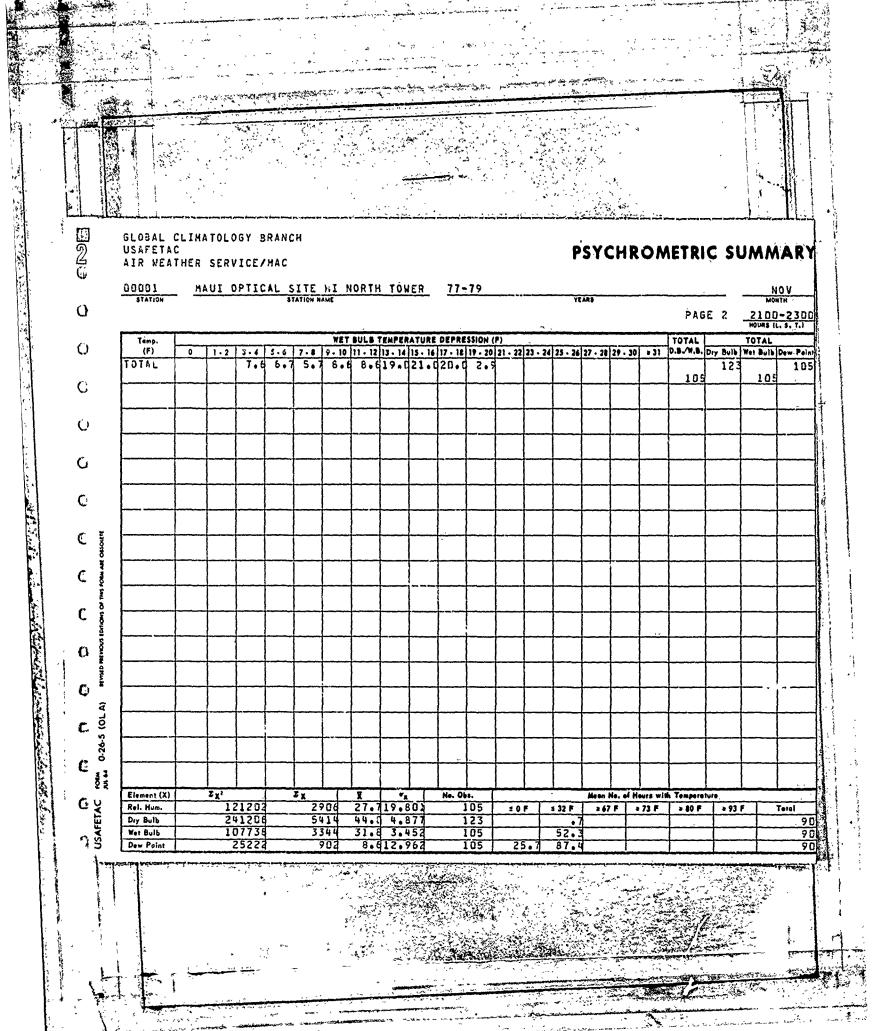
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GLOBAL CLIMATOLOGY BRANCH USAFETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 77-79 STATION STATION HAME PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 5 31 | D.B./W.B. Dry Bulb | Wet Bulb | Dew Poin -16/-17 -24/-25 TOTAL 6.716.223.819.0 123 105 105 105 Element (X) No. Obs. Mean No. of Hours with Temperature 2910 118676 27.119.122 105 10F ≤ 32 F > 80 F > 93 F 244179 5445 Dry Bulb 44.3 5.072 123 10945 Wet Bulb 3375 32.1 3.055 105 49. Dew Point 24418 960 9.112.253 19. 88.

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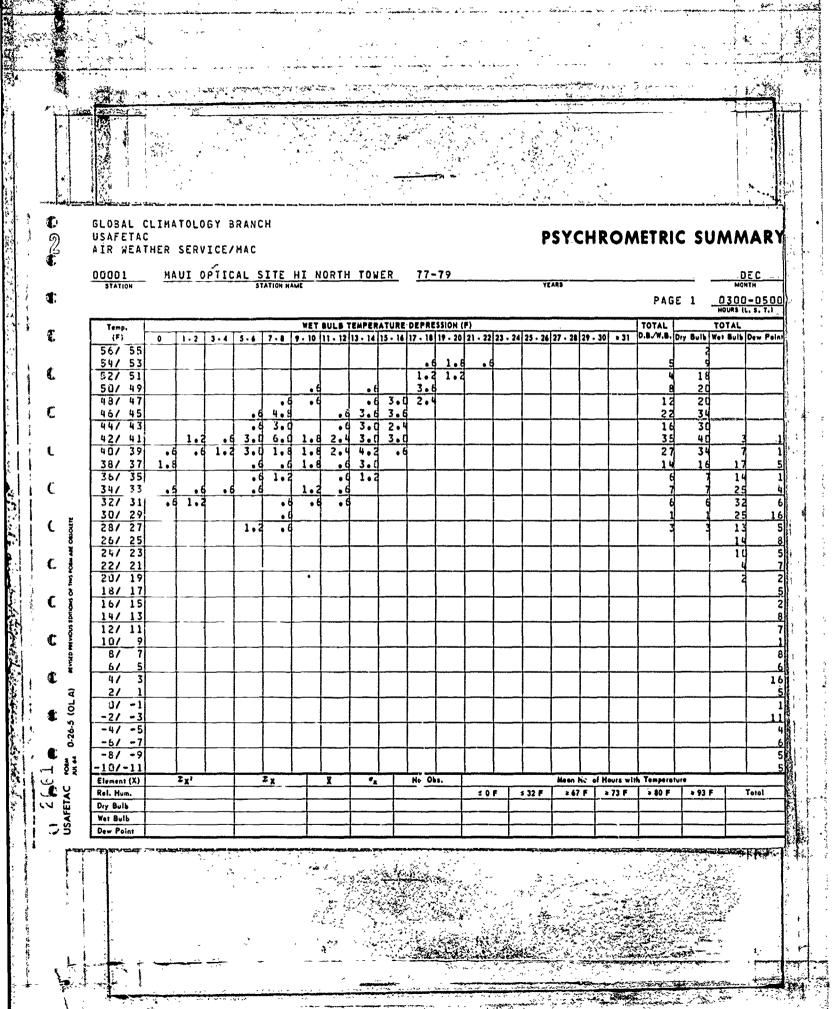
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TOWER 77-79 NOV STATION STATION NAME HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL " 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 = 31 D.B./W.B. Dry Buth Wer Buth Dew Pein -6/ -7 -8/ -9 -10/-11 -12/-13 -14/-15 -16/-17 -18/-19 -22/-23 -24/-25 -32/-33 -34/-35 TOTAL 1.0 4.5 8.5 8.2 8.4 5.912.423.517.6 808 809 808 ğ Element (X) 28.319.879 968217 22905 808 ≥67 F = 73 F = 80 F = 93 F Rel. Hum. 1 32 F 2012604 Dry Bulb 43490 45.5 5.801 955 720 306.5 902484 26532 33.4 3.767 808 720 Wet Bulb 228334 8454 10.913.166 808 160.4

GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 77-79 0000-0200 WET BULB TEMF-R- FURE DEPRESSION (F) TOTAL TOTAL 1-2 3-4 5-6 7-8 9-10 11-12 13-1-15 16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 -31 D.B./W.B. Dry Bulb Wet Bulb Dow Poin WET BULB TEMP - RATURE DEPRESSION (F) Temp (F) 58/ 57 56/ 55 54/ 53 527 51 3.6 59/ 49 1.3 48/ 47 46/ 45 3.6 1.8 44/ 43 42/ 41 3.5 3.4 1.8 1.4 1.4 29 40/ 39 38/ 2. 37 36/ 35 33 34/ 32/ 31 30/ 29 28/ 27 26/ 25 241 23 727 73/ 19 18/ 16/ 15 14/ 13 12/ 11 10/ 8/ 5/ 2/ 0/ -1 -2/ -6/ -7 Element (X) ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F Rel. Hum. 1 32 F Dry Bulb Wet Bulb Dew Point

2 GLOBAL CLIMATOLOGY BRANCH **PSYCHROMETRIC SUMMARY** USAFETAC AIR WEATHER SERVICE/MAC 00001 MAUI OPTICAL SITE HI NORTH TO MER 77-79 STATION 0000-0200 HOURS IL. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 . 12 | 13 . 14 | 15 . 16 | 17 . 18 | 19 . 20 | 21 . 22 | 23 . 24 | 25 . 26 | 27 . 28 | 29 . 30 | a 31 | D.B./W.B. Dry Bulls | Wet Bulls | Dew Point -10/-11 -12/-13 -14/-15 -16/-17 -18/-19 -20/-21 -22/-23 -26/-27 -28/-29 -30/-31 -32/-33 9.5 9.410.114.418.315.d 8.3 169 169 ಠ 0.26.5 10 M Element (X) No. Obs. 550 Rel. Hum. 28204 32.624.744 169 ≤ 32 F 43.4 6.049 253 486525 10989 5.5 Dry Bulb 93 159884 5142 169 62. 93 Wet Bulb 57448 8.416.660 30.3 Dew Point 169 88.6

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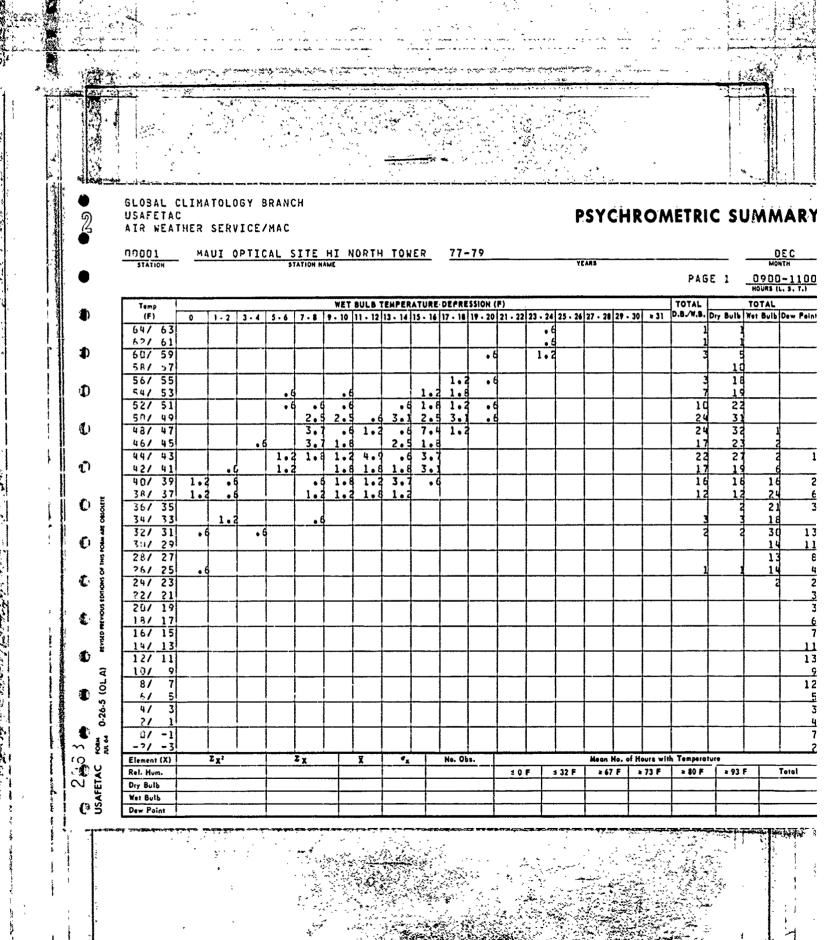


GLOSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC HAUI OPTICAL SITE HI NORTH TOWER DEĆ 77-79 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.S./W.B. Dry Bulb Wet Bulb Dew Pein (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 -12/-13 414/-15 -16/-17 -18/-19 -20/-21 -22/-23 TOTAL 3.6 2.410.219.9 8.4 8.419.312.7 247 166 166 156 ğ X % 35.625.313 Element (X) Mean No. of Hours with Temperature 316560 5916 267 F 273 F 280 F 293 F Rel. Hum. 166 ≤ 32 F 10726 43.4 5.553 473364 247 Dry Bulb 3.8 166231 5194 Wet Bulb 31.3 4.744 166 56.0 93 63186 1804 86.3

GLGSAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 77-79 0600-0800 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | a 31 | D.B./W.B. Dry Bulb Wet Bulb Dew Peint 56/ 55 Ù 52/ 51 1. 50/ 49 48/ 47 3.1 1.9 1.9 0 46/ 45 44/ 43 1.3 2. 2.5 5. 4. 29 42/ 41 1. 0 40/ 39 1.5 2.5 2.5 2.5 1.3 21 38/ 37 36/ 35 1.9 34/ 32/ 31 30/ 29 28/ 27 26/ 25 24/ 23 22/ 21 20/ 19 18/ 17 16/ 15 12/ 11 10/ 8/ 61 21 3/ -2/ -3 -4/ -5 -6/ -7 -8/ -9 -10/-11 Element (X) ZX Zχ Mean No. of Hours with Temperature Ø ∠⊕¹ USAFETAC ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F Rel. Hum. SOF 1 32 F 2 Wet Bulb Dew Point

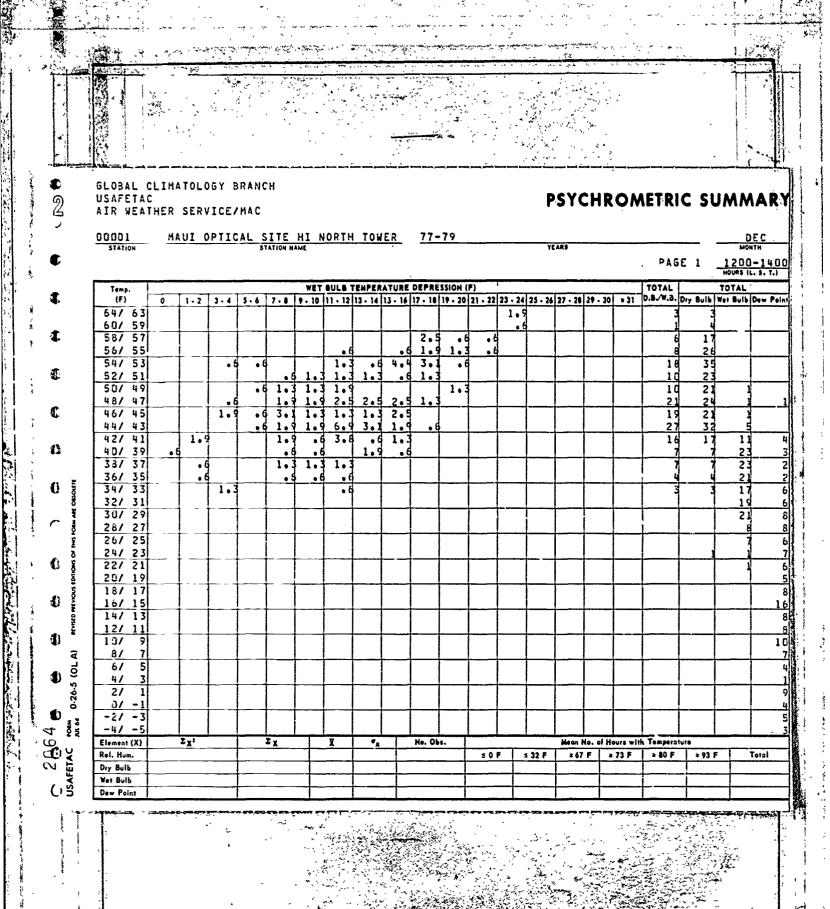
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER 1 77-79 <u> 0600-0800</u> PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 | D.B./W.B. Dry Butb | Wet Butb | Daw Poin -14/-15 -16/-17 -18/-19 -20/-21 -26/-27 -32/-33 TOTAL 2.510.113.212.613.218.213.8 6.9 159 159 159 ತ 33.023.25 No. 05. Element (X) Mean No. of Hours with Temperature 258554 5246 159 ≤ 32 F 469274 43.8 5.43 241 Dry Bulb 10554 1.2 157037 31.1 4.531 56.7 Wet Bulb 4949 159 55185 87.7 Dew Point



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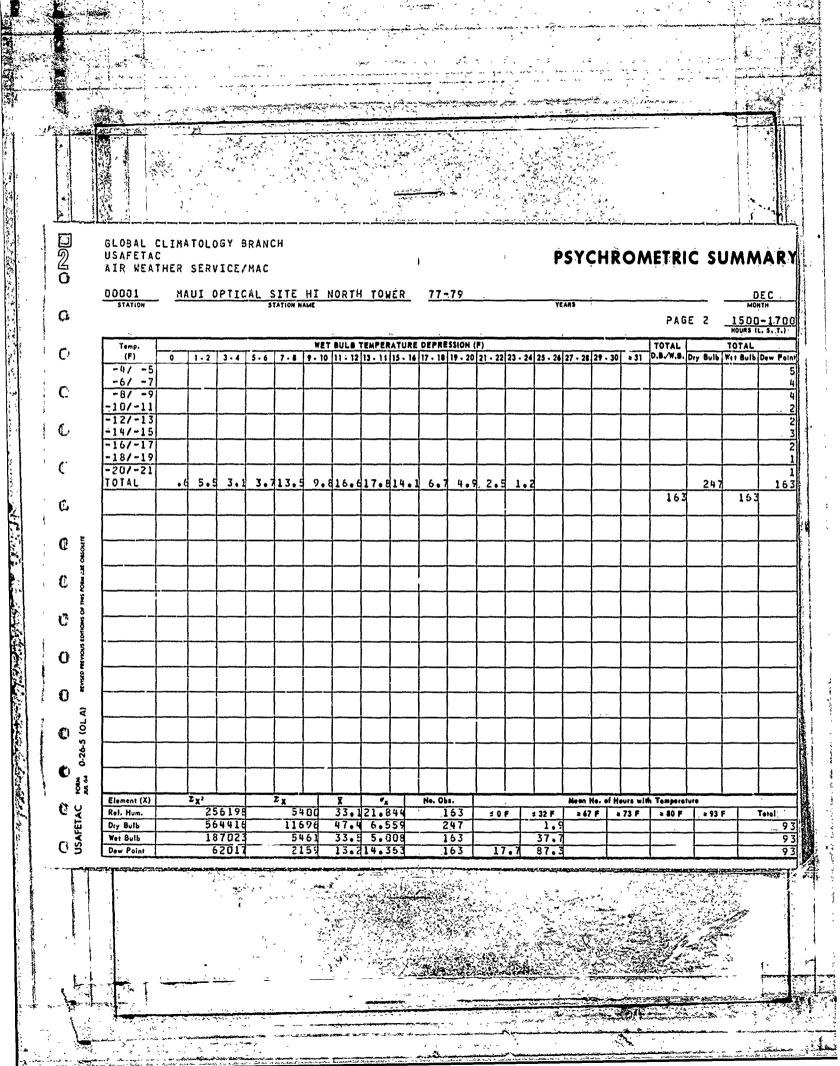
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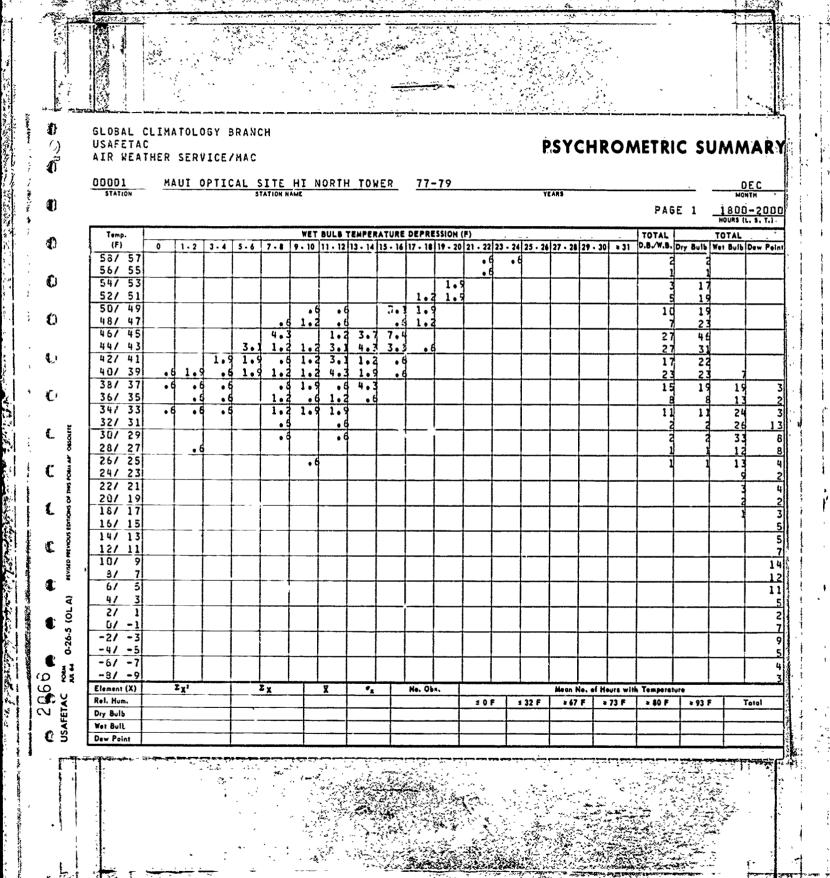


2 GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC HAUI OPTICAL SITE HI NORTH TOWER 00001 77-79 STATION NAME PAGE 2 1200-1400 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 25 27 . 28 29 . 30 > 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point -6/ -7 -8/ -9 -10/-11 -12/-13 -16/-17 -18/-19 -22/-23 -24/-25 TOTAL 2.513.110.621.911.314.410.6 3.8 160 245 160 160 No. Obs. Mean No. of Hours with Temperature Element (X) 250541 536 33.521.059 160 Rel. Hum. 1 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F \$ 0 F 48.8 6.452 34.8 5.157 Dry Bulb 594295 11963 245 93 33.1 5570 160 198134 Wet Bulb Dew Point 71079 2439 82.5

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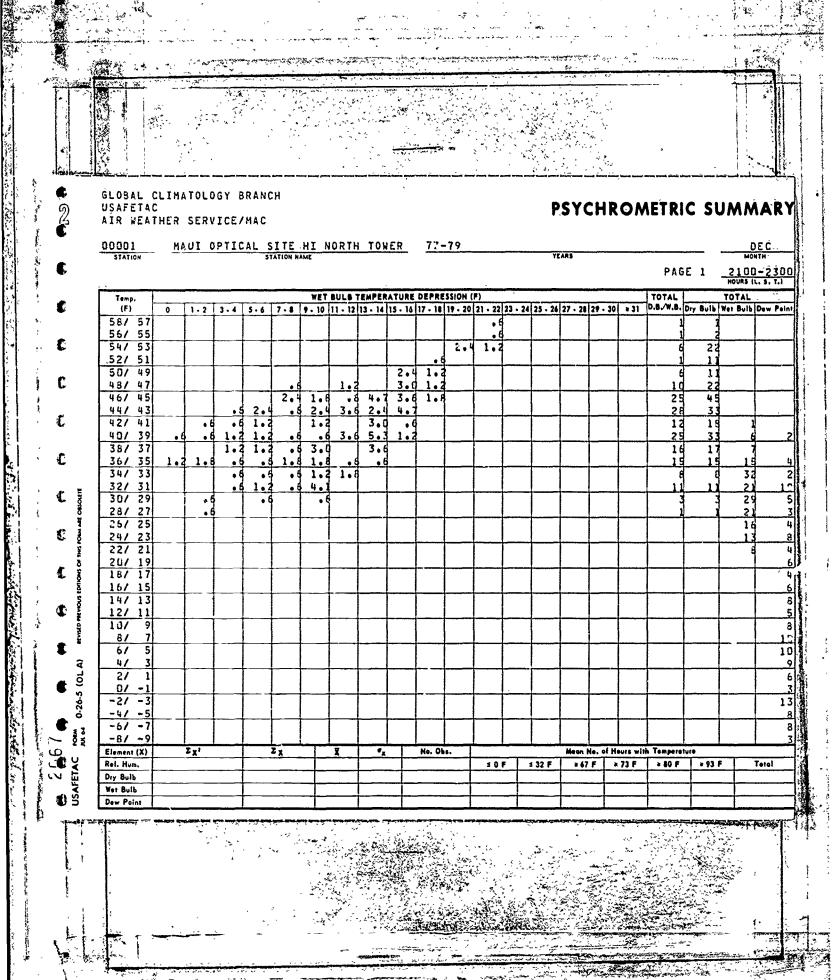




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																			PAG	E 2	2100 HOURS
	emp (F)						WET	BULB	TEMPER	ATURE	DEPRE	SSION (	F).	-	ulas ad		T		TOTAL D.B./W.B.		TOTAL
	3/-11	<u> </u>	1.2	3 - 4	5 - 6	7.8	7 - 10	111 - 12	13 - 14	15 - 16	17 - 14	19 - 20	21 - 22	23 • 2	14 25 - 26	27 - 28	24 - 3	31	0.00	Dry Buis	Wet Bulb
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GLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC MAUI OPTICAL SITE HI NORTH TOWER PAGE 1 WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 ⇒ 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point (F) 54/ 63 60/ 59 58/ 21 55/ 55 141 52/ 51 9 0 53/ 49 122 196 3. 48/ 47 161 25 46/ 45 200 260 3.0 1.9 1. 44/ 43 2.9 16 42/ 41 178 12 3.1 153 2.3 1.3 1.2 40/ 39 1 2 Q 128 38/ 37 19 60 142 54 36/ 35 190 33 34/ 203 70 32 32 32/ 31 202 55 111 14 28/ 27 25 37 65 24/ 22/ 21 31 20/ 19 54 16/ 15 12/ 11 61 8/ 61 69 4/ 40 Ũ/ Meen No. of Hours with Temperature ≥73 F ≥ 80 F ≥ 93 F ≤ 32 F ± 0 F USAFETAC Rel. Hum.  $\vec{\alpha}$ Dry Bulb Wet Bulb Dew Point

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_	l. Hum. y Bulb												± 0 F	5	32 F	≥ 67	F :	73 F	≥ 80 F	≥ 93	F
_	1 Bulb			1			_			$\dashv$		_					$\dashv$			<del></del>	+

SLOBAL CLIMATOLOGY BRANCH PSYCHROMETRIC SUMMARY USAFETAC AIR WEATHER SERVICE/MAC HAUI OPTICAL SITE HI NORTH TOWER 77-80 STATION NAME PAGE 2 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 3 3 1 D.B./W.B. Dry Bulb Wer Bulb Dow Point 6/ 434 6/ 5 371 4/ 398 21 356 67 -1 318 -21 -3 301 -4/ -5 289 -6/ -7 255 -8/ -9 252 -10/-11 -12/-13 237 -14/-15 210 -16/-17 197 -18/-19 150 -20/-21 132 -22/-23 103 -24/-25 89 -26/-27 -28/-29 48 -30/-31 -32/-33 27 -34/-35 -36/-37 25 -38/-39 -40/-41 11 -42/-43 -44/-45 17 -46/-47 -48/-49 -50/-51 -52/-53 1.4 5.7 3.4 5.9 8.011.011.713.415.011.8 7.9 3.4 TOTAL 12539 11205 11205 11205 ZX Element (X) ZX No. Obs. Mean No. of Hours with Temperature 11205 19100665 368749 Rel. Hum. 32.924.934 ≤ 32 F 267 F 273 F 280 F 293 F Total Dry Bulb 27763334 582946 46.5 7.265 12539 159.8 8760 13757928 386576 34.5 6.129 11205 3652.6 8760 5673577 137425 12.318.867 11205 2543.27557.9 Dew Point

HAUI OPTICAL SITE HI NORTH TOWER

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## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

STATION		STAT	SMAN HOI						YEAR\$			-	
IRS IL S'T I	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	40.0	38.0	40.5	40.6	47.2	47.9	49.1	51.0	48.0	45.1	43.3	43.4	44
00-02 S D	3.866	4.571	3.513	5.740	4.129	3.767	4.489	5.221	7.314	5.552	4.625	6.049	6.4
TOTAL OB	s 91	158	137	88	93	90	118	102	170	166	113	253	15
MEAN	11 0.40								50.0	46.8			44
03-05 5 D			3.615 136	4 • 5 2 2		3.121				7.657 165		5.553 247	6.9
								A.U.E					
MEAN	39.0												4 5
06-08 S D								4.415					6.6
TOTAL OF	91	157	133	88	93	90	119	99	168	165	117	241	15
MEAN	41.8											47.4	4 8
09-11 5 D								5.570		6.863	5.620	6.318	7.4
TOTAL OF	89	155	129	86	92	90	111	9.8	175	164	119	244	15
MEAN	43.6						55.5						50
12-14 S D								5.475			6.222	6.452	7.3
TOTAL OF	88	157	127	84	93	9.0	116	9.8	172	166	121	245	15
MEAN	42.1						54.3			49.0			4 6
15-17, S.D.	-1							4.541					7.0
TOTAL OF	5 21	156	132	81	9.2	89	114	103	175	165	122	247	15
MEAN	40.0					49.4			49.4				45
18-20 S D								5.169					6.6
TOTAL OF	89	157	135	81	93	87	119	100	172	165	123	247	15
MEAN	39.6												44
21-23 S D								5.112			4.877		6.5
TOTAL OF	90	160	135	84	93	87	121	100	168	163	123	253	15
MEAN	40.6							53.5					46
HOURS 5 D		5.258						5.658					7.2
TOTAL OF	5 721	1256	1064	682	742	712	938	802	1371	1319	955	1977	125

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#### MEANS AND STANDARD DEVIATIONS

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WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

5.135 3.952 3.505 6.317 5.243 7.720 5.473 3.767 5.025

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1371

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YEARS

00001 MAUI OPTICAL SITE HI NORTH TONER 78-80

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HRS ILST IIIN SEP OCT NOV ANNITAL ... MAY 1111 AUG DEC TAN MAE APR. MFAN 30.9 29.8 32.2 31.6 34.7 37.2 36.6 34.2 31.7 30.4 28.2 32.6 00-02 5 0 5.465 7.198 4.624 3.487 4.521 6.200 5.447 3.076 3.782 4.231 2.537 5.777 5.678 TOTAL OBS 145 93 90 102 170 1417 MEAN 32.2 31.3 34.7 31.4 30.2 32.5 33.1 38.4 35.5 31.4 31.3 33.2 6.040 5.474 6.002 5.158 7.778 03-05 5 D 4.192 5.660 4 . 252 2.708 2.871 5.476 3.146 4.744 TOTAL OBS 83 122 136 90 102 1413 MEAN 27.9 31.0 30.3 32.4 32.7 32.4 35.5 37.9 37.5 34.9 31.7 33.2 06-08 S D 5.360 4.801 4.739 4 . 4 0 9 4.452 2.860 6.161 7.602 4.725 3.279 4.531 5.773 2.676 TOTAL OBS 82 124 132 90 99 99 1395 168 33.5 34.6 36.1 35.3 38.4 40.7 41.1 38.2 MEAN 34.2 34.8 33.6 36.2 09-11 S D 5.292 4.904 2.885 2.748 3.946 4.106 4 . 685 7.468 6.097 5.050 3.236 4.928 5.832 TOTAL OBS 175 142 99 83 118 129 86 92 90 98 1386 35.5 MEAN 36.2 36.1 37.9 36.3 39 . B 42.8 42.7 40.1 36.9 37.9 6.032 12-14 S D 5.531 3.689 7.844 5.158 3.006 5.157 4.018 3.993 4.702 3.860 4.165 6.532 TOTAL OBS 121 126 9.8 1385 30.5 35.5 35.2 3.718 5.555 4.414 36.5 35.6 38.1 41.9 41.4 38.2 35.3 33.5 4.048 3.539 6.023 4.264 7.255 5.038 3.130 5.008 35.1 MEAN 36.7 15-17 S D 5.896 4.607 TOTAL OBS 85 120 131 81 103 103 1399 MEAN 28.3 32.6 31.4 32.9 33:4 32.8 35.7 38.1 37.4 35.1 32.1 33.6 S D 2.953 6.027 4.622 4.473 3.468 3.068 6.023 4.738 18-20 4.405 6.837 5.387 3.055 5.611 TOTAL OBS 83 135 81 87 100 172 145 105 1401 MEAN 27.8 31.9 34.9 36.1 31.7 30.1 32.2 32.0 37.1 34.7 31.8 30.3 32.7 4.943 3.507 2.254 21-23 50 5.843 5.503 6.992 5.320 3.452 4.594 5.623 5.848 3.552 4.326 87 100 TOTAL OBS 84 133 84 93 121 145 105 169 1409 168 29.3 32.9 33.2 3461 39.2 38.9 36.4 33.2 MEAN 32.0 33.4 36.5 34.5 32.0

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USAFETAC JUL 64 0.89.5 (OLA)

HOURS

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TOTAL OBS

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## **MEANS AND STANDARD DEVIATIONS**

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

YEARS

00001 MAUI OPTICAL SITE HI NORTH TOWER 78-80 STATION

STATION NAME

S 11 5 7 1		JAN	FEB	MAR	APR	MAY	אטנ	JUL	AUG	SEP.	OCT.	NOV	DEC	ANNUA
	MEAN	7	11.6	5.0	10.5	2:6	-9.8	6.4	14.8	18.8	15.5	8.8	8.0	8
20-00	S D 1	21.375	24.303	21.138	21.533	13.799	22.054	20.517	17.421	16.606	11.628	13.585	16.660	19.6
	TOTAL OBS	82	125	137	88	93	9.0	118	102	170	145	98	169	14
	1													
,	MEAN	2.7	11.9	5.7	12.5	362	-5.8	6'- 4	13.9	21.4	17.2	7.3	10.9	10
33-05	S D	18.690		19.507										19.
	TOTAL OBS	83	122										1 1	1
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	MEAN	3.1	11.8	4.8	10.6	.8	-6.2	6.6	14.3	20.2	17.0	6.6	9.6	,
06-08	s o	- •		20.494										19.
(	TOTAL OBS	82	124	t	88								F 1	1
			1	1								<u> </u>	- × Z	
1	MEAN	11.8	17.7	12.5	15.2	7.7	8	11.6	19.5	25.1	21.9	11.9	12.7	1
)9 <b>-</b> 11	S D												15.956	17.
	TOTAL OBS	13.004	118			92			,		,			1
	O AC OUS			129		- 72	Z.¥	111	7.0		192	7.7	103	
	MEAN	17 7	21.1	17.0	10.7	94:9		14 7	25.9	27.0	30 0	36 5	15 3	
	i	13.2	,											1
12-14	TOTAL OBS							,					14.602	15.
	TOTAL OBS	82	121	126	84	9.3	9.0	116	98	172	143	100	140	1
·····			<del></del>		<u> </u>							<del></del>	<del>   </del>	
	MEAN	8.8	,	,										1
15-17					,					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			14.363	17.
	TOTAL OBS	85	120	131	81	92	8.9	114	103	175	143	103	163	1
			<del> </del>	1	1		<u> </u>	<u> </u>	<u> </u>			<del> </del>		
	MEAN	3.8	16.1	8.2	14.4	3.4	-4.9	7.3	19.0	19.3	17.6	9.1	10.1	1
18-20	50	14.754	23.496	20.240	19.342	16.759	19.978	20.469	13.053	16.097	12.805	12.263	15.212	18.
1.	TOTAL OBS	83	119	135	81	93	87	119	100	172	145	105	162	
												1		
•	MEAN	• 7	13.1	4.9	12.5	.6	-7.8	7.0	17.0	16.7	16.8	8.6	8.5	
21-23	5 D	18.203		21.570									15.431	19.
	TOTÁL OBS	84									,		F 1	1
1						· · · · · ·						1		
	MEAN	5.4	15.3	9.4	14.0	5:3	-3.6	8.7	18.7	22.0	19.1	10.5	11.0	1
All	5 0			19.746			,						15.722	18.
HOURS	TOTAL OBS	664	1	1						,		808	r 1	111

USAFETAC FORM 0.89-5 (OLA)

## RELATIVE HUMIDITY

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MAUI OPTICAL SITE HI NORTH TOWER

79-80

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STATION

STATION NAME

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TOTAL

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82

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82

85

83

664

RELATIVE HUMIDITY

27.8

30.6

30.4

38.5

36.3

32.1

29.9

28.2

31.7

90%

4.8

4.9

8.4

4.9

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6.0

5.7

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY G	EATER THAN		
HINOM	(L.\$.T)	10%	20%	30%	40%	50%	60%	70%	80%	I
JAN	00-02	69.5	42.7	31.7	25.6	17.1	13.4	9.8	7.3	
	03-05	75.9	51.8	38.6	26.5	21.7	16.9	13.3	7.2	T
	06-08	76.8	57.3	37.8	24.4	15.9	13.4	12.2	8.5	T
	09-11	85.5	61.4	49.4	36.1	27.7	24.1	18.1	14.5	T
	12-14	90.2	64.6	51.2	32.9	22.0	17.1	14.5	9.8	T
	15-17	87.1	55.3	38.8	28.2	18.8	15.3	9.4	7.1	T
	18-20	79.5	43.4	27.7	26.5	20.5	15.7	12.0	8•4	T
	21-23	71.4	44.0	27.4	22.6	21.4	17.9	10.7	8.3	1
<u></u>										
										1
TO	TALS	79.5	52.6	37.8	27.9	20.6	16.7	12.5	8.9	1

USAFETAC . FORM 0-87-5 (OL A)

# RELATIVE HUMIDITY

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STATION NAME

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENC	Y OF RELATIVE	E HUMIDITY G	REATER THAN			MEAN	TOTAL
MONTH	(L S.T)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO. OF OBS.
FEB	00-02	76.0	64.8	59.2	56.0	47.2	40.0	35.2	32.8	25.6	49.1	125
	03-05	73.0	60.7	59.D	55.7	52.5	44.3	40.2	32.0	25.4	49.4	122
	06-08	74.2	63.7	59.7	55.6	49.2	44.4	40.3	35.5	18.5	49.9	124
	09-11	80.5	64.4	64.4	57.6	52.5	48.3	45.8	36.4	18.5	53.3	118
	12-14	90.1	71.1	66.9	58.7	46.3	42.1	38.8	32.2	17.4	52.0	121
	15-17	80.8	71.7	65.0	55.8	49.2	49.2	43.3	35.8	19.2	52.9	120
	18-20	82.4	72.3	62.2	57.1	52.9	51.3	45.4	37.0	22.7	53.8	119
	21-23	75•0	67.5	.62.5	59.2	52.5	45.8	40.0	33.3	18.3	50.9	120
TO	TALS	79.0	67.0	62.4	57:0	50.3	45.7	41.1	34.4	20.7	51.4	969

USAFETAC 0-87-5 (OL A) GLOBAL CLIMATOLOGY BRANCH **RELATIVE HUMIDITY** USAFETAC AIR WEATHER SERVICE/HAC (E. 00001 MAUI OPTICAL SITE HI NORTH TOWER MAR STATION NAME STATION PERIOD ( CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) (I PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN MEAN TOTAL HOURS MONTH RELATIVE Gy NO. OF (L.S.T.) 10% 20% 30% 40% 50% 60% 70% 80% 90% HUMIDITY OBS. MAR 00-02 80.3 54.7 37.2 24.1 9.5 22.6 18.2 14.6 13.9 32.8 137 C 03-05 83.8 54.4 31.6 24.3 19.1 16.2 14.0 14.0 11.8 31.9 136 0 06-08 81.1 51.5 31.1 23.5 18.9 15.2 15.2 14.4 7.6 31.1 132 09-11 88.4 59.7 36.4 22.5 20.9 20.9 20.2 17.8 5.4 34.8 129 O 34.1 24.5 12-14 89.7 69.0 52.4 18.3 15.9 13.5 4.8 37.9 126 () 15-17 90.8 64.1 55.0 35.1 27.5 20.6 18.3 13.0 7.6 38.9 131 40.7 18-20 80.0 55 4 6 29.6 24.4 20.7 18.5 17.8 8.9 34.9 135 76.7 53.4 21-23 35.8 26.3 21.1 11.3 32.9 18.8 18.0 14.3 133 40.2 TOTALS 83.9 57.8 27.4 22.4 18.6 16.5 14.8 8.4 34.4 1059

USAFETAC FORM 0-87-5 (OL A)

## **RELATIVE HUMIDITY**

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MAUI OPTICAL SITE HI NORTH TOWER

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY G	REATER THAN			MEAN	TOTAL
MONTH	(L S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO. OF OBS.
APR	00-02	78.4	54.5	54.5	48.9	40.9	33.0	29.5	17.0	11.4	42.3	8.8
	03-05	74.4	63.3	52.2	47.8	37.8	35.6	33.3	31.1	27.8	46.4	90
	06-08	75.0	65.9	54.5	40.9	34.1	26.1	22.7	18.2	12.5	40.5	88
	29-11	81.4	76.7	55.8	37.2	31.4	27.9	24.4	16.3	8.1	41.3	96
	12-14	92.9	72.6	54.8	38.1	31.0	22.6	20.2	19.0	11.9	41.9	34
	15-17	88.9	71.6	66.7	46.9	34.6	27.2	27.2	22.2	9.9	45.0	81
	18-20	80.2	66.7	55.6	46.9	38.3	32.1	32.1	25.9	11.1	44.3	81
	21-23	77.4	60.7	59.5	47.5	40.5	36.9	33,3	27.4	11.9	45.3	8 4
10	TALS	81.1	66.5	56.7	44.3	36.1	30.2	27.8	22.1	13.1	43.4	682

USAFETAC PORM 0-87-5 (OL A)

## **RELATIVE HUMIDITY**

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MAUI OPTICAL SITE HI NORTH TOWER

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
MONTH	(L S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO. OF OBS.
НАЧ	00-02	72.9	34.4	17.2	4.3	2+2	2.2	1.1	1.1		18.9	93
	03-05	73.1	41.9	20.4	5.4	2.2	2.2				20.2	93
	66-08	65.6	28.0	12.9	4.3	3.2	2.2				17.2	93
	09-31	79.3	38.0	16.3	5.4						19.3	92
	12-14	82.8	58.1	38.7	15.1	6.5	1.1	1.1			25.7	93
	15-17	79.3	45.7	29.3	12.0	3.3	2.2				22.4	92
	18-20	67.7	32.3	19.4	10.8	7.5	4.3	2.2	1.1	1.1	20.2	93
	21-23	67.7	26.9	18.3	5.4	3.2	1.1	1.1			17.6	93
TO1	TALS	73.4	38.2	21.6	7.8	3.5	1.9	. 7	• 3	•1	20.2	742

USAFETAC FORM 0-87-5 (OL A)

## RELATIVE HUMIDITY

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MAUI OPTICAL SITE HI NORTH TOWER

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CUMULATIVÉ PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
нтиом	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NO, OF OBS.
JUN	00-02	28.9	23.3	18.9	13.3	8.9	2 • 2			4	14.3	90
	03-05	36.0	29.2	18.0	14.6	11.2	9.0	4.5	1.1		17.5	8.9
	06-08	37.8	27.8	15.6	10.0	6.7	5.6	3 • 3			15.6	90
	09-11	45.6	26.7	50.0	12.2	3.3	2+2				16.3	90
	12-14	53.3	40.0	28.9	10.0	1.1					18.5	90
	15-17	51.7	40.4	22.5	9.0	3.4					18.6	89
	18-20	40.2	27.6	17.2	14.9	3.4	3.4	3.4	1.1		16.2	87
	21-23	31.0	26.4	20.7	12.6	8.0	3 • 4	2.3	1.1		15.6	, 87

5.8

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USAFETAC FORM 0-87-5 (QL A)

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TOTALS

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR HEATHER SERVICE/MAC

DODDI MAUI OPTICAL SITE HI NORTH TOWER 79-80

STATION STATION NAME

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MONTH

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
MONTH	(LS.T)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NO, OF OBS.
JUL	00-02	58.5	39.8	33.1	21.2	16.9	10.2	4 • 2			24.3	11
	03-05	56.7	37.5	28.3	22.5	16.7	14.2	3.3			23.8	12
	06-08	53.8	37.0	26.1	21.8	16.8	12.6	5,9			23.4	11
	09-11	64.0	43.2	30.6	22.5	15.3	11.7	6.3	2.7	1.8	25.5	11
	12-14	62.1	46.6	38.8	30.2	14.7	12.9	5 • 2	•9		27.1	11
	15-17	58.8	45.6	32.5	19.3	8,8	6.1	• 9			23.1	11
	18-20	58.0	42.9	29.4	20.2	17.6	10.1	4 • 2	•8		23.9	11
	21-23	60.3	45.5	33.9	_3.1	13.2	8.3	1.7			24.5	12
										······································		·
TO	TALS	59.0	42.3	31.6	22.6	15.0	10.8	4.0	• 6	• 2	24.5	93

USAFETAC POMA 0-87-5 (OL A)

## RELATIVE HUMIDITY

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MAUI OPTICAL SITE HI NORTH TOWER

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENC	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
HTHOM	(L S T.)	10%	20%	30%	40%	50%	60%	70%	\$0%	90%	RELATIVE	NO OF OBS.
AUG	00-02	76.5	59.€	41.2	28.4	15.7	7.8	4.9			29.6	102
	03-05	75.5	56.9	31.4	20.6	13.7	5.9	4.9	1.0		26.5	105
	06-08	79.8	58.6	35.4	20.2	9.1	4.0				26.1	99
	09-11	84.7	62.2	40.8	20.4	9.2	5.1	4.1	4.1	2.0	29.0	98
	12-14	93.9	82.7	50.0	26.5	12.2	5 • 1	3.1	2.0	1.0	33.4	98
	15-17	95.1	83.5	57.3	28.2	14.6	4.9	1.9			33.8	103
	18-20	89.0	72.0	44.0	31.0	17.0	7.0	3.0			32.2	100
	21-23	82.0	67.0	45.0	35.0	23.0	10.0	5.0			33.2	100
						موروع مديور						
101	TALS	84.6	67.8	43.1	26.3	14.3	6.2	3.4	• 9	•4	30.5	802

USAFETAC FORM 0-87-5 (OL A)

**HOURS** 

(L S.T)

00-02

03-05

06-08

09-11

12-14

15-17

18-20

21-23

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97.1

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#### **RELATIVE HUMIDITY**

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MAUI OPTICAL SITE HI NORTH TOWER

79-80

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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TOTALS

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PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN MEAN TOTAL RELATIVE NO OF 20% 36% 40% 50% 60% 70% 80% 90% HUMIDITY OSS. 69.4 50.6 41.2 30.6 18.2 9.4 3.5 37.0 170 76.0 58.5 42.7 32.7 17.0 9.4 4.7 1.8 39.2 171 75.6 55.4 40.5 29.8 13.7 6.5 1.2 • 6 35.9 168 74.9 60.0 45.7 25.7 14.9 37.5 175 80.8 64.5 45.9 31.4 18.6 :72 2.9 40.0 • 6 2.9 81.1 59.4 49.1 27.4 15.4 37.2 175 • 6 72.1 51.7 39.5 22.7 14.0 4.7 2.3 •6 35.6 172 72.6 48.2 31.5 21.4 12.5 6.0 1.2 . 6 33.8 158

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MAUI OPTICAL SITE HI NORTH TOWER

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
монјн	(LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NO. OF OBS.
OCT	00-02	93.8	74.5	55.9	23.4	9.0	6.9	2 • 1			32.7	145
	03-05	91.5	76.8	65.5	23.2	10.6	6.3	1 • 4			33.2	142
	06-08	95.1	78.2	62.7	24.6	9.2	7.0	1.4			33.4	142
	09-11	99.3	83.1	66.9	28.2	12.0	7.7	5 • 6			35.4	142
	12-14	100.0	86.7	61.5	28.7	14.0	9.1	4.9			36.0	143
	15-17	93.6	85.3	65.0	29.4	16.8	12.6	6.3	1.4		37.2	143
	18-20	94.5	77.2	64.1	27.6	17.2	13.1	2 • 8			35.3	145
	21-23	95.2	75.9	57.9	27.6	15.9	13.1	3.4	•7	•7	34.6	145
το	TALS	96.0	79.7	62.4	26.6	13.1	9.5	3.5	•3	•1	34.7	1147

USAFETAC FORM 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR KEATHER SERVICE/MAC

GDDC1 MAUI OPTICAL SITE HI NORTH TOWER 78-79

STATION STATION NAME
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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO, OF OBS.
NOV	00-02	92.9	39.8	33.7	26.5	21.4	11.2	5.1	3.1		28.9	98
	03-05	83.8	39.4	30.3	23.2	19.2	14.1	5.1	3.0		27.8	99
	06-08	62.8	38.4	31.3	24.2	16.2	12.1	6.1	3.0	1.0	27.1	99
	09-11	92.9	36.4	31.3	23.2	18.2	9.1	1.0			27.1	99
	12-14	96.0	51.0	40.0	26.G	17.0	8.0	2.0			30.1	100
	15-17	96.1	52.4	41.7	28.2	19.4	7.8	1.9			30.4	103
	18-20	91.4	43.8	29.5	24.8	17.1	9.5	2.9			27.7	105
	21-23	87.6	42.9	31.4	23.8	17.1	11.4	3.8			27.7	105
<b>4</b>												
10	TALS	90.4	43.D	33.7	25.0	18.2	10.4	3.5	1.1	•1	28.4	808

USAFETAC FORM 0-87-5 (OL A)

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## RELATIVE HUMIDITY

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
HTHOM	(L S T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NO. OF OBS.
DEC	00-02	82.8	56.2	42.6	29.0	23.1	15.4	9.5	7.1	4.7	32.6	169
	93-05	86.7	60.8	47.0	39.8	29.5	15.7	9.0	7.2	7.2	35.6	166
	06-08	84.3	59.7	45.3	33.3	23.9	11.9	6.3	S.C	3.8	33.0	159
	09-11	88.3	60.1	42.3	31.9	22.1	9.2	7.4	6.7	5.5	33.2	163
	12-14	89.4	68.1	47.5	32.5	18.1	10.0	6.9	4.4	3.1	33.5	160
	15-17	92.5	63.8	41.1	32.5	20.9	9.2	8.0	5.5	2.5	33 • 1	163
	18-20	88.3	59.3	40.1	30.9	22.8	16.0	8.0	5.2	2.5	33.3	162
	21-23	89.8	58.0	40.2	27.8	21.9	14.2	8.9	5.9	2 • 4	32.6	169
									•			
to	TALS	87.7	60.8	43.3	32.2	22.8	12.7	8.0	6.0	4.0	33.4	1311

USAFETAC FORM 0-87-5 (OL A)

## RELATIVE HUMIDITY

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MAUI OPTICAL SITE HI NORTH TOWER

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY G	EATER THAN			MEAN RELATIVE	TOTAL NO OF
MONTH	(LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS
JAN	ALL	79.5	52.6	37.8	27.9	20.5	16.7	12.5	8.9	5.7	31.7	664
FEB		79.0	67.0	62.4	57.0	50.3	45.7	41.1	34.4	20.7	51.4	969
MAR		83.9	57.8	40.2	27.4	22.4	18.6	16.8	14.8	8.4	34.4	1059
APR		81.1	66.5	56.7	44.3	36.1	30.2	27.8	22.1	13.1	43.4	682
MAY		73.4	38.2	21.6	7 • 8	3.5	1.9	•7	• 3	.1	20.2	742
NUL		40.6	30.2	20.2	12.1	5 . 8	3.2	1.7	• 4		16.6	712
JUL		59.0	42.3	31.6	22.6	15.0	10.8	4.0	•6	•2	24.5	938
AUG		84.6	67.8	43.1	26.3	14.3	6.2	3.4	•9	• 4	30.5	802
932		92.7	75.3	56.0	42.0	27.7	15.5	5 • 2	1.8	• 5	37.4	1371
ост		96.0	79.7	62.4	26.6	13.1	9.5	3.5	•3	.1.	34.7	1147
NOV		90.4	43.0	33.7	25.0	18.2	10.4	3.5	1.1	•1	28.4	808
DEC		87.7	60.8	43.3	32.2	22.8	12.7	8.0	6.0	4.0	33.4	1311
101	ALS	79.0	56.8	42.4	29.3	20.8	15.1	10.7	7.5	4.4	32.2	11205

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#### PART F

#### PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

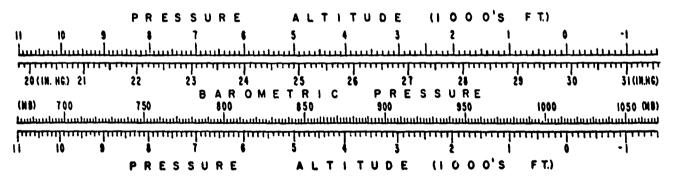
NOTES: Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

- 1. Station pressure is presented in the table in inches of mercury.
- 2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressurealtitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



## **MEANS AND STANDARD DEVIATIONS**

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

00001

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MAUI OPTICAL SITE HI NORTH TOWER

77-80

STATION

STATION NAME

76

IRS IL S T	Y	JAN	FEB	MAR	APR	MAY	JUN.	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	20.868	20.877	20.901	20.876	20.927	20.935	20.991	20.991	20.983	20.975	20.927	20.914	20.934
00	, SD	•061	.081	.069	.059	.037	.035	.057	• 043	.049	.065	.073	.086	.076
	TOTAL OBS	61	8.0	7.5	56	62	49	71	90	87	86	5.8	8.5	860
	MEAN	20 045	20 051	20 970	20 041	20 003	20 006	20 064	20 061	20 05"	20 047	20 004	20.890	20.906
03	. S D	.063												•077
	TOTAL OBS								i					856
<u>r</u>	*					JE	7.7	1	7.4			3.0	1 99	
	MEAN	20.839	20.846	20.864	20.840	20.890	20.903	20.959	20.957	20.951	20.946	20.901	20.886	20.903
06	SD	.064	.078	•070	.061	.038	.036	.058	.043	.047	.065	.074	.091	.077
	TOTAL OBS	59	7.9	7.3	56	62	49	71	90	87	8.5	58	84	
	MEAN	20.873	20.876	20.900	20.873	20.922	20.930	20.980	20.985	20.980	20.978	20.936	20.920	20.934
09	· S D \	.062									1			.076
	TOTAL OBS	61	,						1					845
	MEAN	20 037	20.00	20 007	20 477	22 22	-	22 222	22 222	20.005	00 024	20.004	22 244	
	S D				1	1							20.916	20.937
12	TOTAL OBS	• 062 59	,							1 -	•066 86			859
			1	1	32		- 30	1	7.		- 00		1	
	MEAN	20.831	20.841	20.866	20.851			20.977	20.970	20.953	20.941	20.890	20.876	20.905
15	S D	• 060	.084	.069	.060	.037	•032	.061	.045	.048	.065	.072	.089	.080
	TOTAL OBS	61	8.0	7.5	54	62	4.8	7.3	90	87	8.7	61	82	860
····	MEAN	20.843	20.847	20.865	20.843	20.898	20.908	20.967	20.962	20.949	20.946	20.899	20.863	20.90
19	, S D	.062		1							.065			.077
	TOTAL OBS	61	1											867
	MEAN	20.870	20.876	20.897	20.873	20.920	20.929	20.024	20.023	20.979	20. 974	20.927	20.909	20.931
21	S D	.060									.068			.076
	TOTAL OBS		1					1					1	860
	MEAN	20.055	20.862	20 893	20.950	20.010	20.920	20.977	20.975	20.947	20.840	20.014	20.899	20.919
All	5 D	.063												.07
HOURS	TOTAL OBS													6855
		703		373	733	772	207	2/9		701	993	7/3	. 000	0.003

USAFETAC FORM 0.89.5 (OLA)

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### PART C .

### SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Quete: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Heans and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

FOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (imote) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRM.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual all hours combined, (2) By month all hours combined, and (3) By month by: standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRIMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE: FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUI OPTICAL SITE HI SOUTH TOWER 78-80 JĂN 00002 0000-0200 ALL WEATHER HOURE (L.S.T.) SPEED (KNTS) DIR, MEAN WIND SPEED ≥# 2.3 9.7 N 2.3 3.4 1.7 13.1 NHE 2.9 4.0 1.1 5.1 10.3 • 6 2.9 1.1 • 6 NE 10.6 ENE • 6 1.1 4.6 1.1 4.6 .6 6.9 . • 6 ESE 1.7 1.1 3.4 10.3 SE 1.1 • 6 • 6 SSE 1.7 5 . 6 • 6 1.1 4.6 2.9 10.3 SSW 1.7 5.1 17.2 1.1 1.1 . 6 1.1 1.1 WSW 6.9 9.5 1.1 1.1 1.1 1.1 WHW 1.1 • 6 3.4 9.5 . 6 9.1 2.9 NW 1.1 1.7 1.1 8.0 1.1 2.3 NNW . 6 . 6 100.0 TOTAL NUMBER OF OBSERVATIONS 175

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER 78-80		JAN
STATION	STATION NAME	YEARS	MONTH
	ALL WÉATHER		0300-0500
	GLASS.		HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 • 16	17 - 21	22 - 27	28 · 33	34 - 40	41 - 47	40 - 55	≥\$4	*	MEAN WIND SPEED
N	•6	4.1	1.7	1.2	.6	.5						8.7	9.0
NNE	•6	1.7	1.7	2.9	1.7	1.7						10.5	13.2
NE	1.2	• 6	4.1	4.1	1.2	1.7						12.8	12.5
ENE			1.2	1.7	. 6						ļ	3.5	12.8
ŧ			• 6	4.1	1.2	• 6						5.4	14.9
ESE		1.7		1.2								2.9	8.2
SE		1.2	1.2									2.3	5.5
SSE		1.2	1.2		1.2	• 6	• 6					4.7	15.0
S		2.3				• 6						2.9	9.0
SSW		2.3		4.7	2.3							9.3	13.6
sw		2.9		2.9	2.9	1.2	• 6					10.5	15.3
WSW	• 6	1.2	• 6_	•6	• 6							3.5	10.0
w	1.7	• 6		1.7	1.2	• 6						5.8	11.6
WNW	1.2	• 6			1.2							2.9	9.6
NW		• 6	1.2	• 6	• 6							2.9	11.4.
WMM	• 6	3.5	2.3	1.7	1.2	1.2						10.5	10.9
VARSL													<u> </u>
CALM	$\geq <$	$\geq \leq$	><	$\geq <$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	6.4	24.4	15.7	27.3	16.3	8,7	1.2					100.0	12.1

TOTAL NUMBER OF OBSERVATIONS 172

# SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STOOD 0	MAUI	OPTICA	L SITE	HI S	OUTH T	OWER	78-	80	<del></del>	EARS	-			AN
						A11 NE	ATUED		,					
		-				ALL WE	LASS		<del></del>					-060
						-							nou	
						CON	DITION							
		_												
	SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 - 55	≥54	%	MEAI WINI SPEEI
	N		3.0	1.2	• 6	1.2	1.2						7.3	12.
	NNE	• 6	• 6	4.2	2.4	1.8	• 6	1.2	1.2				12.7	15.5
[	NE		1.8	3.0	4.2	•6	1.2						10.9	11:8
	ENE				2.4	• 6	1.2						4.2	16.9
	ŧ		• 6	• 6	1.2	1.2							3.6	13.2
	ESE		1.2	2.4	3.6	• 6							7.9	10.4
	SE			2.4									2.4	7.8
	SSE					• 6	1.2		1.2				3.0	28.6
	S			•6	• 6	•6							1.8	14.3
	SSW	1.2	1.2	1.2	4.8	1.2							9.7	11.5
	sw		1.8	1.2	2.4	1.8	1.2	• 6					9.1	14.
	WSW	1.2	• 6		1.8	• 6	1.2						5.5	13.3
	w	1.2	1.8		4.2		• 6						7.9	10.4
	WNW		1.2	1.2	• 6								3.0	7.4
Ĺ	NW	• 6	1.8	• 6	. 6	1.2							4.8	9.
	WMM	.6	• 6	2.4	1.2	• 6	• 6						6.1	11.0
	VARBL													
	CALM	$\boxtimes$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\times$	$\geq \leq$	$\geq \leq$	$>\!\!<$		
		5.5	16.4	21.2	30.9	12.7	9.1	1.8	2.4	,			100.0	12.8

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUL OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	JAN MONTH
		ATHER	0900-1100 HOURS (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 • 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N		2.4	2.9	1.2			. 6					7.1	9.9
NNE	/ · · · · · · · · · · · · · · · · · · ·	1.2	2.9	1,2	•6	1.2	• 6					7.6	13.8
NE	.6	1.2	1.8	5.3	1.8		2.4					12.9	15.2
ENE		1.2	3.5	• 6		• 6						5.9	10.3
e	• 6	.6		1.2	•6	• 6				1		3.5	12.7
ESE		1.8	1.2	2.9								5.9	9.6
SE	. 6	1.2	7	1.2					T			2.9	7.4
SSE	.6	7				•6	•6	.6		• 6		2.9	27.6
5	.6	1.2	•6		1.8				<del>                                     </del>	1		4.1	10.9
SSW	.6	1.2	• 6	2.4	1.2				1	1	1	5.9	10.9
SW	<u> </u>	2.4	1.8	2.9	2.4	2.4				1	1	11.8	13.9
WSW	1.2	1.2	1.8	3.5	1.2						1	8.8	10.
w	<del> </del>	1.8		•6		•6			<b>†</b>	1		2.9	10.
WNW	1.2	,	1.2		1.8				1	1		4.1	10.0
NW	1.8	1.2	•6	1.8	1				<del>                                     </del>	1	†	5.3	6.
NNW	1.2	.6	1.8	2.9	1.2	•6			<b>†</b>		1	8.2	11.
VARBL	ļ	, , , , , , , , , , , , , , , , , , ,	-		1		1		<del>                                     </del>	<del></del>	<del> </del>		
CALM		$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\times$	$\times$	$\times$	$\boxtimes$	$\boxtimes$	$\times$		
	8.8	18.8	20.6	27.6	12.4	6.5	4.1	.6		•6		100.0	12.

TOTAL NUMBER OF OBSERVATIONS 170

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	JAN MONTH
	· · · · · · · · · · · · · · · · · · ·	ATHER LASS	1200-1400 HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.7	2.8	3.4	• 6		• 6						8.9	7 • B
NNE	.6		2.2	3.4	•6	2,2						8.9	14.2
NE	• 6	1.7	2.2	3.9	1.1							9.5	10.5.
ENE		1.1	• 6	3.9	.6							6.1	12.6
ŧ	. 6	1.7	2.8	1.1	• 6							6.7	8.8
ESE		• 6	2.2	3.9								6.7	11.2
SE			.6									• 6	8.0
338						•6	1.1					1.7	29.0
\$	.6	1.1			1.1		_,6					3.4	13.3
SSW	• 6	6	T	5.6		• 6						7.8	12.1
SW	. 6	1.1	1.7	3.4	3.4			.6				10.6	14.2
WSW	1.1	1.7	• 6	3,9	1.1							8.4	10.7
W	• 6	2.2	1.7	1.7	,6							6.7	8.4
WNW		. 6	2.2	•6								3.4	9+2
NW	• 6	2.8	1.1		.6							5.0	7-1
NNW		1.7	1.1	2.2	.6							5.6	9.3
VARBL													
CALM	$\boxtimes$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\ge$	$\geq \leq$	$\boxtimes$	$\geq$		
	7.3	19.6	22.9	34.1	10.1	3.9	1.7	.6				100.0	11.1

TOTAL HUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUT OPTICAL SITE HI SOUTH TOWER 78-80 1500-1700 HOURS (L.S.T.) SPEED (KNTS) DIR. MEAN WIND SPEED 1.3 28 - 33 22 - 27 2.2 6.6 1.7 HHE 4.4 ENE 2.8 9.9 ESE 7.7 SE 10.0 .6 20.4 •6 1.1 . 6 SW wsw • 5 • 6 3.3 8.2 2.2 • 6 7.2 WNW 2.2 1.1 7.7 9.8 NW 2.8 TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SOOOS HOITARE	MAUI OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	JAN MONTH					
ALL WEATHER								
CLASS								
	701	DITION						

SPEED (KNTS) DIR.	1.3	4+6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	46 - 55	≥\$4	*	MEAN WIND SPEED
N	• 5	• 5	1.6	2.2	• 5							5.5	10.8
NNE	• 5	• 5	2,7	7.1	1.1							12.1	12.2
NE	1.1	• 5	2.2	8.8	3,8							16.5	13.1
ENE		1.1	2.2		• 5							3.8	9.6
8	• 5		3.8	2.7								7.1	9.4
ESE	• 5	• 5	3.3	• 5								4.9	8.3
SE	. 5		• 5									1.1	6.5
SSE		1		• 5								• 5	15.0
\$	• 5		1	1.1	• 5	1.1	1.1					4.4	20.3
35W	. 5		1.1	1.1	1.1	• 5	• 5					4.7	15.3
WZ		. 5	1.6	5.5	1.1	1.6	1.1					11.5	16.0
wsw		• 5		2.7		l						3.3	11.5
w	• 5	1.1	• 5	2.2		• 5						4.9	10.3
WNW	• 5	2.2	2.2	2.2	• 5							7.7	8.6
NW		2.2	1.1	1.6	.5		• 5					6.0	11.6
NNW	• 5	• 5	2.2	2.2		1						5.5	10.0
VARBL			1			1		1					
CALM	$\boxtimes$	$\supset$	$\supset$	>	$\supset \subset$		$>\!\!<$	$\boxtimes$	$\boxtimes$	$\boxtimes$	> <		
	6.6	10.4	25.3	40.7	9.9	3.8	3.3					100.0	12,1

TOTAL NUMBER OF OBSERVATIONS

NW

VARBL

1.1

1.7

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80 2100-2300 HOURS (L.S.T.) SPEED (KNTS) 22 - 27 2.8 4.5 10.1 • 6 1.1 11.5 NE 5.0 ENE t 2.2 ESE SE SSE .6 \$ 2.8 1.1 1.1 10.6 1.1 2.8 2.2 16.5 SW WSW . 6 .6 .6 • 6 WNW 2.2 1.1 1.1 6.7

TOTAL NUMBER OF OBSERVATIONS

3.9

100.0

6.0

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO2	MAUI OPTICAL SITE HI SOUTH TOWER	78-80	JAN MONTH
	ALL WE	ATHER	ALL
	CL	.418	HOURS (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4+4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	• 6	1.9	2.1	1.6	. 4	. 4	, 1					7.3	10.2
HHE	. 4	1.0	3.0	4.1	1.3	1.1	• 2	•1				11.3	13.3
NE	• 5	1.1	2.9	4.9	1.6	• 5	• 3					11.8	12.6
ENE	. 1	• 8	1.4	1.9	• 6	• 2						5.0	11.7
ŧ	. 2	• 5	1.9	2.7	• 7	1						6.1	11.6
ESE	. 1	1.0	1.9	1.9	•1							5.0	9.5
SE	• 1	• 5	. 9	. 4	• 1							2.0	8.2
358	• 1	• 3	• 2	• 3	. 4	. 4	. 4	• 3		• 1		2.4	20.8
\$	. 3	, 7	• 1	. 4	1.0	• 3	. 3	• 1				3.2	15.2
SSW	6	. 9	1.1	3.5	1.3	•6	• 1					8.0	12.9
sw	• 1	1.5	1.2	3.1	1.9	1.4	. 6	• 1				9.8	15.1
WSW	.7	. 9	. 5	2.1	• 9	. 4						5.6	11.9
w	1.0	1.3	.7	1.6	• 6	. 4						5.5	9.9
WNW	.7	1.3	1.4	.7	. 8							4.8	8.8
NW	. 6	1.9	1.1	1.2	•6		•1					5.5	9.0
NNW	• 7	1.2	1.7	2.0	.8	. 4	.1					6.8	10.8
VARBL										1			
CALM	$\geq \leq$	$\geq \leq$	$\geq$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\geq \leq$	$\geq \leq$		
	6.8	16.7	22.0	32.6	12.8	6.3	2.1	. 6		.1		100.0	12.0

TOTAL NUMBER OF OBSERVATIONS 1403

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	-	<del></del>			ALL WE	ATHER				<del></del>			-0200 Rs (L.S.T.)
	-				CON	DITION				_			
SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	26 - 33	34 - 40	41 - 47	48 - 55	≥34	*	MEAN WIND SPEED
N	.4	.9	3.0	.9	. 9	.9		1	1			6.8	10.9
NNE	. 4	, 9	1,7	1.7	. 4	• 9						6.0	11.6
NE		1.3	1.7	6.4	1.3							10.7	12.2
ENE	. 4	2.1	2.6	1.3	, 0							6.8	8.9
8		2.6	2.6	1.3	1,7							8.1	9.7
ESE	. 4	1.3	1.3	2.6	3.0			.4				9.0	13.7
SE		1.7	1.7	1.3	.4							5.1	9.8
SSE		1.7	• 9	. 4	1.3	.4	. 9					5.6	14.2
\$	. 4		1.3	.4	1.7							3.8	12.7
SSW				1.3	1.3	• 9						3.4	17.5
SW		. 4		.9	. 9	. 4		.4				3.0	18.7
wsw			1.3	1.3	1.3	1.3	.4	.4				6.0	18.4
w			. 4	. 4	1.3	2.1						4.3	20.2
WNW	. 4	. 9	2.1	1.3	• 9	. 4	. 9					6.8	13.3
NW	. 4	2.6	1.3	. 9	. 4							5.6	7.6
NNW	• 9	3.8	3.0	. 9			. 4					9.0	7.8
VARBL													
CALM												1	1

TOTAL NUMBER OF OBSERVATIONS

234

100.0

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODD 2 MAUI OPTICAL SITE HI SOUTH TOWER 78-80 FEB
STATION NAME STATION NAME ALL WEATHER O300-0500
GLASS HOURS (L.S.T.)

SPEED (KNTS) DIR.	1.3	4 • 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
н		1.7	1,7	.4	• 9	. 4	. 4					5.7	11.9
NNE		, 9	1.3	.4	, 9	. 4						3,9	12.8
NE	. 4	• 9	4.8	3.0	1.3	. 9						11.3	11.7
ENE		• 9	3.0	1.3								5 • 2	8.7
ŧ	. 9	1.3	1.3	1.3	. 4							5.2	8.9
ESE	1.3	. 9	4.3	2.2	2.2							10.9	9.9
SE	. 4	• 9	.9	1.3	. 4	. 4		• 9				5.2	15.0
SSE		• 9	2,6	.4	. 4	• 9						5.2	11.8
S	, 9	, 9		. 9	, 9	. 9	• 9					5.2	16.1
SSW		, 9			. 4		. 4					1.7	15.5
SW	. 4		1.7	2.2		. 4		, 4				5.2	13.3
WSW			. 9	. 9	3.0							4.8	15.8
w	. 9	, 9	1.3	1.7	2,2	2.2						9.1	15.1
WNW	. 4	, 9	2.5	, 4		.3						5.2	10.5
NW	. 9	2.6	3.0	.9	. 4	. 4						8.3	8.6
NHW		1.3	3.5	1.3	۶	. 4	. 4					7.8	11.5
VARBL													
CALM	$\times$	$\times$	$\ge $	$\boxtimes$	$\boxtimes$	X	$\times$	$\times$	$\boxtimes$	$\times$	$\geq \leq$		
	6.5	15.7	33.0	18.7	14.3	8.3	2.2	1.3				100.0	12.0

TOTAL NUMBER OF OBSERVATIONS

GLOSAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUI OPTICAL SITE HI SOUTH TOWER 78-80 WEATHER GLASS 0600-0800 HOURS (L.S.T.) CONDITION SPEED (KNTS) DIR. MEAN WIND SPEED 1.3 7 - 10 11 - 16 17 - 21 22 - 27 28 - 33 ≥ 54 NNE NE • 9 . 4 EHE E ESE 1.7 2.2 SE . 9 1.7 SSE . 4 . 9 . 9 1.3 \$ . 4 . 4 SSW 1.3 1.7 . 4 . 9 . 4 . 9 SW wsw . 4 W WNW 7.6 2.6 3.0 NW 11.0 HNW 3.0 3.9 • 9 . 4 VARBL TOTAL NUMBER OF OSSERVATIONS

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ŧ	DODD 2	IUAM	OPTICA	L SITE	HI S	OUTH T	OWÈR	78-	80	Y	EARS	<del></del>	<del></del>		EB-
T			_				ALL WE	ATHER	<u></u> <u>-</u> .			<del></del>			-1100
E			-		<u>.</u> .		CON	DITION							
C							,				Y				· · · · · · · · · · · · · · · · · · ·
C		SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	44 - 55	≥56	*	MEAN WIND SPEED
~		N		• 9	2.6	2.1	. 4							5.0	10.2
_		NNE	. 4	• 9	1.7	3,9								6.9	10.6
C.		NE	, 9	1.7	4.3	3,4						,		10.3	8.9
		ENE	. 4		1.3	.9	1.7				<u> </u>			4.3	12.5
_				2,1	9.	2.1	. 9							6.0	10.4
C		ESE	. 4	. 4	1.7	2.1	. 9	- 4			ļ			6.0	1.3.0
		SE			2.6	2.6	.9	.9	. 4					7.3	1.3 . 9
٠,		SSE			2.6	1.7		.9						5.2	12.8
C		<u> </u>	<u> </u>		2.6	2.1	- 4	- 9		• 4	<u> </u>			6.4	14.2
		SSW	. 4	1.7	. 9	, 9		- 4	1.3	. 4	<u> </u>			6.0	16.1
etr.		SW	- 4		• 4	1.7		. 4	.4	. 9	• 4			4.7	20.7
C		WSW	- 4	. 4	• 4	2.1	2.1	1.3	.9		<del></del>		ļ	7.7	17.4
		w	- 4	- 9	. 9	1.3	1.7	1.3	-4	• 9		<del> </del>	<del> </del> -	7.7	17.6
g.		WNW			1.3	1.7	. 9	ļ		<u> </u>	ļ - <b></b> -	<b></b>	ļ	3.9	12.6
C		NW		3.0	1.3	3.0	. 4	<b> </b>	• 4		<del> </del>	<del> </del>	<del> </del>	8.2	10.5
		NNW	1	1.3	l .9	.4	.9	1	ł l	I	!	1	l	3.4	10.1

TOTAL NUMBER OF OBSERVATIONS 233

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUI OPTICAL SITE HI SOUTH TOWER 78-80 1200-1400 HOURS (L.S.T.) SPEED (KNTS) DIR. MEAN WIND SPEED 7 - 10 17 - 21 N 2.9 • 8 .4 5.9 11.0 NNE 2.9 8.6 1.7 NE 2.9 2.1 9.1 ENE 2.1 2.5 1.7 8.8 £ . 8 ESE 1.7 2.1 9.3 SE . 8 2.1 . 4 • 4 2.5 2,5 16.1 5 .4 . 8 1.7 SSW .4 .4 10.8 . 8 1.3 2.5 1.3 sw WSW 1.7 1.7 1.3

. 8

. 8

. 8

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_\_238\_

15.1

9.5

11.8

8.0

3.4

6.3

00.0

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1.3

<u>.</u>8

2.1

1.3

w

WNW

NW

NNW

VARBL

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) SITE HI SOUTH TOWER 78-80 1500-1700 HOURS (L.S.T.) CONDITION SPEED (KNTS) DIR. MEAN WIND SPEED 1.3 7 - 10 17 - 21 22 - 27 28 - 33 ≥56 4 . 6 11 - 16 t N 2.5 2.1 .8 HHE NE 1.3 . 8 .9.7 ENE . 8 2.5 10.4 æ . 8 . 8 . 4 4.6 1.3 ESE . 4 . 8 .8 SE . 4 . 8 SSE \$ . 8 SSW 15.9 . 4 1.7 5.0 WSW . 4 1.7 7.9 WNW 1.3.4 . 8 4.2 . 4 11.8 NW NNW 7.1 10.4 VARM CALM 100.0 TOTAL NUMBER OF OBSERVATIONS USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

G0002	MAUI OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	FEB.
		ATHER ASS	1800-2000 Hours (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 · 55	≥56	*	MEAN WIND SPEED
н		1.7	2.9	. 8	1,7						İ.,	7.1	10.8
NNE	.4	1.7	3.7	2.9								8.7	9.2
NE		- 8	3.3	4.2	4							8.7	11.0
ENE	• 4	. 4	1.2	3.3	• 4							5.8	11.5
ŧ		. 4	3.3	1.7								5.4	9.4
ESE		. 8	• 8	4.2		• 4						6.2	12.1
SE	1.2	1.2		1.7	• 8	. 4						5.4	10.1
SSE	. 4	8	1.2	1.2								_ 3.7	9.1
\$	. 8	. 4	1.7	1.7	1.7	1.2						7.5	13.8
SSW	. 4	• 8	. 4	2.5	. 4	1.7						6.2	14.1
SW		. 4	.4	1.2	. 8	`•4						3.3	14.4
WSW		. 4	1.2	. 4	1.2	1.7		.4				5.4	17.8
W		. 4	. 8	.4	1.2	2.1	1.2					6.2	20.2
WNW		. 4	• 8	1.2	1.2	•						4.2	13.2
NW	. 8	1.7	2.1	2.1	8	• 8						8.3	10.7
HNW		. 8	2.1	3.3		• 4	• 8					7.5	13.3
VARBL													,
CALM	$\times$	$\geq$	$\times$	><	$\times$	$\times$	$\times$	$\geq \leq$	$\geq \leq$	><	><		
	4.6	13.3	26.2	32.9	10.8	9.6	2.1	. 4				100.0	12.4

TOTAL NUMBER OF OBSERVATIONS 240

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION MAUI	OPTICA	STATIO	N NAME		ALL WE	ATHER		٧	EARS				MON
						ASS						ноч	RS (
					CON	DITION							
SPEED	1						<u> </u>				<del></del>	1	Т
(KNTS) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - (0	41 - 47	44 - 55	≥54	*	
N		1.3	3.4	2.1	.4		.4					7.6	1
NNE		1.7	2.5	2.5	. 4	1.3	.8					9.3	1
NE	.4	• 8	3.0	4.7	. 8	. 4						10.2	. 1
ENE	. 4	1.3	4.2	2.1	l							8.1	$\Gamma$
E .	1	. 8	3.0	1.3	1.3							6.4	1
ESE		. 8	2.5	3.4	1.3	. 8						8.9	. 1
SE	<u> </u>	1,3	1.3	1.7	. 4				<u> </u>			4.7	
\$38	1	<u> </u>	1.3	. 8	1.7	8	<u> </u>		<u> </u>	<b></b>		4.7	41
5	<u> </u>	<b> </b> _	ļ	1.7	1.3	. 4						4.2	4
SSW	.8	1.3	. 4	1.7	2.1		ļ	<b> </b> _	<b></b>			6.4	11
sw	.4	. 4	-4	1.3	1.3		. 4	. 4	ļ	ļ		4.7	44
wsw	.4		.8	ļ	2.5	1.3	.4		<b> </b> _			5.5	-1
w_	<del> </del>	. 8	1.7	. 4	. 8	- 4	ļ	<b> </b>	ļ			4.2	4
WHW		1.3	1.3	. 4	- 4			• 4	<del> </del>			3.8	_
NW	<del></del>	1.3	1.3	2.1	8	- 8	.8	<b> </b>	<del> </del>	<del> </del>		7.2	4
NNW	.4	.4	1.3	-8	1.3		ļ	<del> </del>	<b> </b>			4.2	41
VARBL	<del>-</del>		<b>—</b>		<del></del>	_							╁
CALM			$\sim$					$\sim$		$\geq$	$\geq \leq$	ļ	╀
1	3.8	13.6	28.4	27.1	16.9	6.4	3.0	.8	ļ	]		100.0	1,

			andra, Marinella, andrilla, Joseph	nad their state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	wint spring printed	,	-				شرجتمضو بتعجدوات		أنسان والمان والمساد		1 Aq	
. ]	# <b>%</b>	GLOBAL C USAFETAC AIR WEAT				P		AGE FRE RECTION HOURLY	AND S	PEED			SUR	FACE	WII	NDS
	<b>(</b> )	0 <u>0002</u>	MAUI	OPTICAL	SITE	HI S	OUTH T	OWER_	78-8	30	¥i	EARS		<del></del>	F	E B
1	Φ			_				ALL WE	ATHER			······································			-	L L 18 (L.S.T.)
	()			-				CON	DITION				<del></del>			
	(†)		SPEED (KNTS) DIR,	1.3	4.4	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 · 47	40 - 55	≥#	*	MEAN WIND SPEED
	(þ		N	-1	1.0	2.8	1.3	• 3	•2	•2	•				6 • 2 6 • 8	10.8
	<b>O</b>		NHE	. 2	1.3	3,3	3,7	. 8	•4	•1	•1				9.7	10.7
	9		ENE	.4	1.0 1.1 1.1	2.5 1.9 2.0	1.6 1.3 2.8	•5 •6	•1		• 1				5.1 7.6	9.9
	•		SE	• 4	1.1	1.4	1.5	•6	•4	•1	•1				5.7	11.6
	O		350	-1	. 4	. 9	1.4	1.1	• 5	• 3	.1				5.1	14.3
			ssw _sw	.4	1.2	1.0	1.4	•8	•5	•4	.4	•1	<del> </del>		5.0 4.8	13.4
	4		wsw	• 2	. 4	1.0	1.4	1.8	1.1	• 5	• 2	.1			6.6	17.3
			WWW	.2	1.2	1.7	1.0	1.8	1.5	•5	•1		<del>                                     </del>	<del>                                     </del>	7.1 5.5	16.5
ì	<b>()</b>		NW	.4	1.9	1.5	2.2	•5	•3	• 2	• 1				7.0	10.7
1	-		NNW	• 3	1.3	2.3	1.6	.7	• 3	•2	•1				6.8	11.2
	0		CALM	> <	> <	> <		>	$\sim$	>	$\times$	$\sim$	>	$\bowtie$		
	0			4.3	16.2	27.8	26.8	13.5	7.2	2.9	1.2	• 2		l	00.0	12.4
	U											TOTAL NU	waer of ob	SERVATIONS		1881
F-18-12-11-11-11-11-11-11-11-11-11-11-11-11-	0															
	8			USAFET	AC AL 64	-8-5 (OL-A)	PAEVIOUS EDI	TIONS OF THIS	FORM ARE OR	SOLITE					محسبت.	
			•		marks.		200			400	• •		ومعالمة والمراجع	200		F '

C

### SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

	STATION				~ ~~~					•	EARD			•	MONTH
©							ALL WE	ATHER						0000	-0200_
							CI	LASS						HOU	RS (L.S.T.)
©.			_	<del></del>			CON	DITION				<del></del>			
Ų,															
			_												
G	1		)	· · · · · · · · · · · · · · · · · · ·	r	T	·····								<del></del>
C		SPEED (KNTS) DIR,	1.3	4+6	7 - 10	11 - 16	17 - 21	22 • 27	28 - 33	34 - 40	41 - 47	44 - 55	≥54	*	MEAN WIND SPEED
C		N		•5	1.8	2.3	•9	<del> </del>			<u> </u>			5.5	12.0
		NNE	• 5	1.8	4.1	3.7			• 5	<del></del>	<del> </del>			10.6	10.0
()		NE		• 5	1.4	.9	i	<del>                                     </del>	7		<u> </u>	İ		2.8	9.3
•		ENE	• 5	• 5	1.4	1.8		i						4.1	9.4
		ę	• 5	.9		.9								2.3	8.4
C	l	ESE		. 9	1.4			• 5						2.8	10.2
		SE		• 5	2,3	1.4	1.4	_,9						6.5	14.0
		358		2.3	1.4	1.4	1.4	1.8						8.3	13.8
(			• 5	1.4	1.8	3.7	1.4	2.3	. 9					12.0	15.2
		SSW	• 5	• 5	. 9	2.3	.5	2.3						6.9	15.0
_		SW	.5	1.4	, 9	, 9		.5	, 9		<u> </u>			5.1	12.6
(		WSW	ļ	1.4	1.4	.9	ļ	,9						4.6	11.3
		W	. 9	1.8	1.8				• 5		<u> </u>			5.1	7.8
_		WNW	1.4	1.4	•5	2.3	, 9	-5	.9					7.8	12.6
C		NW	. 9	- 5	. 9	2.3	1.4							6.0	11.5
		WMM	1.8	3.7	1.8	• 8	• 9	•5			ļ			9.7	8.5
•		VARBL		<b>_</b>	<b>.</b>	<del></del>	<del></del>	<b>_</b>						:	<del> </del>
C	i	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	><	$\geq \leq$	><	><		1
			7.6		34.6	25.8			3.7					100 6	11 6
			1 / a 5	LYes	12400		1 5 a 5	LIUOI			l	L	L	100.0	11105

### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

	_				CI	LASS						HOU	RS (
	-				CON	DITION							
SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 · 55	≥ 56	*	
N		1.4	• 5	2.8	• 5							5.1	ī
NNE	. 9	1.9	2.8	.9	2.3							8.9	1
NE	. 9	2.3	3.3	2.3								8.9	Ţ
ENE	• 5	1.9	• 9	1.9								5.1	Ι
ī		1.4	• 5									1.9	Τ
ESE	• 5	_ • 5	1.4	1.9								4.2	Ţ
SE	1.4	. 9	. 5	2.3	• 5	• 5	• 5					6.5	$\mathbf{T}$
358	• 5	• 9	. 9	2.3	1.4	• 9	. 9					7.9	$\cdot$
S	1.4	• 9	• 5	1.4	. 9	1.9	• 5	• 5				7.9	:
SSW	. 5	1.4	• 5	2.3	• 5	1.9		<u> </u>				7.0	L
SW	1.9	1.9	. 9	2.3		• 5	• 5					7.9	1
WSW	. 5	. 9	1.4		. 9	• 5						4.2	1
w	5_	1.4	• 5	. 9	. 9	1.4	.5		<u> </u>			6.1	
WNW			1.9	. 9		1.4	<u> </u>					4.2	1
NW	. 9	.9	2.3	1.4	1.4			ļ	ļ			7.0	
NNW	<b> </b>	1.9	1.9	1.9	1.4		ļ	ļ	ļ	<u> </u>		7.0	1
VARBL	Ļ.,		Ļ	Ļ	Ļ	Ļ	<u></u>	L	L				4
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		$\geq$	$\geq \leq$	$\geq \leq$		┙
	10.3	20.6	20.6	25.7	10.7	8.9	2.8	.5				100.0	

0

### SURFACE WINDS

0600-0800

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

	-				CON	DITION							
SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	26 - 33	34 - 40	41 - 47	48 - 55	≥\$4	*	T
N			• 9	1.4	, 9							3.3	
HHE	1.4	1.4	2.3	1.9	.5							7.5	
NE	1.4	2.8	1.4	1.4	• 5							7.5	I
ENE	• 5	1.4	4.2	1.9		<u> </u>						8.0	
- !	, 9	. 5	1.7									3.3	I.
ESE		<u> </u>		1.4	• 5							1.9	
SE		, 5	3.8	2.3	1.4	1.4	• 5	L .	7			9.9	1
SSE		104	1.4	. 9			.5	[				4.2	I
		1.9	. 9	3.3	. 9	1.9			<u> </u>			9.4	
55W		. 9		1.9	1.4	1.9		<u>i                                     </u>				6.1	1
\$W	. 5	2.3	1.4	1.2			L		L			6.1	1
wsw	. 9	1.4	1.4	<u> </u>	.5	• 5			<u>i</u> _			4.7	1
w	. 9	1.4	1.4	2.8	.5	9_	, 9	.5				9.4	┸
MNA	. 5	.5	1.4	• 5	1.9	.5						5.2	1
NW	5	9	1.4	1.9	1.4			<u> </u>				6.1	_
NHW	. 5	1,9	2.8	. 9	. 5	9						7.5	1
VARM													$\perp$
CALM	<b>\</b>												Ţ

TOTAL NUMBER OF OBSERVATIONS 213

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUT OPTICAL SITE HI SOUTH TOWER 78-80 0900-1100 WEATHER HOURS (L.S.T.) CONDITION SPEED MEAN 41 - 47 (KNTS) DIR. 1.3 7 - 10 11 - 16 17 - 21 22 - 27 48 - 55 ≥54 WIND • 9 12.1 HHE 2.8 8.8 10.1 NE 5.6 7.5 • 9 1.4 1.9 1.4 <u>• 9</u> .9 . 9 ENE 1.4 6.9 • 5 1.9 • 9 1.4 • 9 ESE • 9 SE • 5 • 9 1.4 SSE .9 2.3 4.6 \$ • 9 15.1 3,2 4.2 . 9 1.4 • 5 1.4 • 5 • 5 . 9 • 9 . 9 17.0 SSW • 5 2.8 SW 9.7 WSW • 9 2.3 1.9 • 5 • 9 <u>. 5</u> 6.9 1.4 1.4 1.4 • 5 6.0 w 1.4 6.5 WNW . 9 . 9 13.9 NW . 9 , 9 4.2 10.0 2.8 NNW 13.3 CALM 100.0 TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PRIVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

C

VARBL

#### SURFACE WINDS

MAR

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80 1200-1400 WEATHER HOURS [L.S.T.] U 0 MEAN WIND SPEED 17 - 21 (KNTS) DIR. 1.3 7 - 10 11 - 16 22 - 27 28 - 33 48 - 55 ≥56 0 1.4 10.4 HHE 1.8 8.7 () NE 10.0 1.8 • 9 7.0 4.1 ŧ 1.4 2.3 4.6 5.7 ESE 2.3 4.1 () 1.4 SE 2.3 1.8 SSE • 5 • 5 1.8 () 2.3 SSW 2.3 . 9 . 5 O • 5 WSW • 5 16.6 WNW 1.8 1.8 . 9 1.4 7.2 NW 4.1 1.4 NNW 2.8 8.4

TOTAL NUMBER OF OBSERVATIONS

100.0

	<b>2</b> •	GLOBAL CL USAFETAC AIR WEATH				P	DIF	AGE FREG RECTION HOURLY	AND SP	PEED			SUR	FACE	WII	NDS
-	U	00002	MAUI	OPTICAL	SITE	HI S	OUTH TO	OWER_	78-8	30						<b>A</b> R
		STATION			STATION	NAME					Y	EARS				IONTH
ŀ	D							ALL WE	THER							-1700
									A D D						HOUR	IS (L.S.T.)
Ì	0							CONI	DITION							
1																
1	O															
	C)		SPEED (KMTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 · 47	48 - 55	≥56	*	MEAN WIND SPEED
	•	t	N	• 5	.9	• 5	• 9	• 5							3.2	10.0
1		Ī	NNE	• 5	1.8	1.4	1.4	1.4							6.5	10.9
1	(	Į.	NE			. 9	. 9								1.8	11.0
		1	ENE	•5	• 9		. 9					<u> </u>	ļ		2.3	6.4
ĺ		Į.	E .		• 9	1.4	• 5	• 5					<u> </u>	<b> </b>	3.2	9.1
	ŧ		ESE		1.4	2.3	1.4					<u> </u>	ļ		5.1	8.5
Part Marie		ļ	SE_	• 5	• 9	3.7	2.3	• 5						l———	7.8	9.6
and and and			SSE	.9	. 9	2.3	6.0	1.8		•5		ļ	<del> </del>		12.9	13.9
1	Ĺ			.5	1.8	3.7	1.4	1.8	1.8	5		<del> </del>	<del> </del>		11.5	13.4
1		ļ	SSW	1.4	• 9	1.8	1.8	1.4	1.4			<u> </u>		<b> </b>	8.8	12.6
,	٠	•	SW	1.4	2.8	• 5	1.4	•5	1.4	• 5	• 5			<b>├</b>	7.4	
	1.	ļ	WSW	1.4	1.8	2.8	• 5	• 5	•5	•5	• 5	<del></del>	<del> </del>	-	4.5	10.6
1		1	WNW	• 5	2.3	1.3	• 9	• 5	• 5				<del> </del>	<del> </del>	6.5	8.1
	<b>1</b> :	1	NW	•5	1.4	• 5	• 5	.9					<del> </del>		3.7	9.5
	•	ŀ	NNW	.9	.9	1.8	1.4	• 5	•5				<del> </del>	-	6.0	10.3
1			VARBL						• •				<del> </del>			1
je.	<b>1</b> :	Ì	CALM													<u> </u>
, ź	₩		CALM		$\sim$	$\leq$										
				9.2	21.2	27.6	22.1	10.6	6.0	1.8	.9		1	.5	00.0	11.1
	<b>●</b>	·										TOTAL NU	MBER OF OR	SERVATIONS		217
こうさき はまま	•															

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 <u>0002</u>	HAUI OPTICAL SITE HI SOUTH TONER	78-80 YEARS	MAR
*IAIII/N			MONTH
	ALL WE	ATHER	1800-2000
	CI	A88	HOURS (L.S.T.)
	CON	DITION	
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	13 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 • 47	48 - 55	≥54	*	MEAN WIND SPEED
N				• 5	1.4	• 5						2.3	17.8
NNE		. 9	2.8	1.9	1.4	. 5						7.4	12.1
NE			. 9									. 9	8.5
ENE			. 9	. 9	• 5							2.3	11.8
E	. 5	, 9	• 5	1.4								3.3	9.1
ESE	. 9	1.4	. 9	. 9								4.2	7.0
SE	• 5	3.7	2.8	3.7	. 9	. 9	• 5					13.0	10.5
SSE	, 9	• 5	1.4	1.4	2.3	1.4						7.9	14.3
\$	. 5	. 9	2.8	1.9	1.9	2.3						10.2	14.2
SSW	• 5	1.9	2.3	. 9	2.3	2.3						10.2	13.7
sw	. 9	1.9	. 9	2.8	. 9	9	. 5	• 5				9.3	13.5
WSW		• 5	.5			• 5						1.4	13.0
w	• 5	1.4	5	• 5	• 5		, 9					4.2	13.2
WNW	1.4	3.3	1.9	1.4	. 9							8.8	7.9
NW	. 9	1.4	1.4	. 9	1.9							6.5	10.3
NHW	. 5	3.3	2.3	1.4	• 5							7.9	8.5
VARBL													
CALM	$\geq \leq$	$\times$	$\geq <$	$\times$	><	$\times$	$\times$	$\times$	$\times$	$\times$	$\supset \subset$		
	7.9	21.9	22.8		15.3	9.3	1.9	· • 5				100.0	11.7

TOTAL NUMBER OF OBSERVATIONS 215

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 <u>0002</u>	MAUI OPTICA	L SITE HI	SOUTH TOWER	78-80	YEARS	MAR MONTH	
	_		2100-2300 Hours (L.S.T.				
			CONI	DITION			

SPEED (KNTS) DIR.	1.3	4+6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 • 47	48 - 55	≥54	*	MEAN WIND SPEED
N	• 5	1.8	1.4	1.8	• 9							6.5	9.5
NNE		2.3	2.8	2.8		• 9						8.8	10.6
NE	• 5	1.8	1.8	• 9								5.1	7.2
ENE			• 5	• 9								1.4	10.7
E	• 5	• 9	• 5	1.8	. 9							4.6	11.3
ESE	,	. 9				• 5						1.4	12.0
SE		2.3	2.3	3.7	• 5	. 9						9.7	11.2
SSE	1.4	. 9	1.4	. 9	2.3	1.8	• 5					9.2	14.3
\$	. 9		2.3	. 9	1.4	2.3			I			7.8	15.0
SSW	. 9	.9	3.2	2.3	2.3	1.4						11.1	17.6
SW	• 9		1.4	• 5		1.8	1.4					6.0	18.7
WSW		.9	• 5	1.8	• 9							4.1	12.3
w	• 5	. 9	1.8	.9	• 5							4.6	8.2
WNW	• 5	1.8	• 5	1.4	• 5				l			4.6	9.2
NW	1.4	1.8	2.3	2.3	• 9	• 9						9.7	10.7
MMM	• 9	• 5	1.4	2.8								5.5	9.2
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\geq$	$\geq \leq$	$\boxtimes$	$\boxtimes$	$\geq$	$\boxtimes$	$\boxtimes$	$\times$	$\geq \leq$		
	8.8	1	24.0	25.8	11.1	10.6	1.8					100.0	11.7

TOTAL NUMBER OF OBSERVATIONS 217

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC 21R WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) SITE HI SOUTH TOWER 78-80 1 WEATHER HOURS (L.S.T.) CONDITION MEAN WIND SPEED SPEED (KNTS) 1 - 3 4.6 7 - 10 17 - 21 22 - 27 N 8.0 10.1 NE 4.5 1.1 1.7 ENE 1.0 . 4 3.9 ESE • 3 1.0 8.7 . 4 1.3 2.3 8.7 SSE • 7 1.1 8.7 13.9 \$ • 5 9.9 SSW SW 1.4 1.7 1.0 WSW WNW . 6 1.4 6.3 1.0 NW 1.4 NHW YARBL C 100.0 0 TOTAL NUMBER OF OBSERVATIONS USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE G

ĬÍ.									, ,					· · · ·	<u> </u>
1 (2) 3	GLOBAL CL USAFETAC AIR WEATH				F	DII	RECTION	QUENCY AND SI OBSER	PEED			SUR	FACE	WI	NDS
O	00002	MAUT	OPTICA	LSITE	HT S	OUTH T	OWER	78-	79					A	PR
	STATION	ساليلانيت		STATIO	N NAME	X. B	<u> </u>		<del></del>	Y	EARS				ONTH
(i			_				ALL WE							0000	-0200
							CI	.ATT						HOUP	16 (L.S.T.)
<i>y</i>			~				CON	DITION				<del></del>			
C,							CON	DITION							
			-									<del></del>			
C.															
C		SPEED (KNTS) DIR,	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
۲.	r	N		<del>                                     </del>	<del> </del>	<u> </u>		i	i		1			*	<b> </b>
	1	NNE		_	2.8		<del>                                     </del>							2.8	8.0
(		NE		2.8		. 9	1.9							5.6	10.7
		ENE		1.9	.9									2.8	6.0
		Ę													
(		ESE	. 9	, 9	1.9	. 9	1.9							6,5	11.6
	Ļ	SE	ļ	.9	9.3	3.7	. 9	1.9	.9				<del> </del>	17.6	12.6
	-	SSE	1.9		4.6	6.5	4.6	3.7	<b></b>	1.9	ļ	ļ		23.1	16.6
•	-		<del> </del>	1.9	5.6	6.5	1.9					<b></b>	-	15.7	11.4
	-	SSW	<del></del>	. 9	. 9	<del> </del>	1.9		ļ	<del> </del>	<del> </del>	<del> </del>	<b></b>	1.9	6.0
(	-	SW WSW	. 9	.9	• 9	1.9	1.9		<del> </del>	<del> </del>		<del> </del>	<del></del>	2.8	10.8
r	-	W		1-07	<del></del>	107	• 9	• 9		<del></del>	<del> </del>			2.8	19.7
	<u> </u>	WNW	1.9	2.8	1						<del> </del>	<del> </del>		4.6	4.4
C	F	NW	9	3.7	.9	•9	1.9		<b> </b>	<del>                                     </del>	i			8.3	9.1
•	Ī	NNW			.9		1		<del> </del>					• 9	7.0
		VARBL													
Į.		CALM		><	$\geq$	$\leq$	$\geq <$	$\geq \leq$	$\boxtimes$	$\geq$	$\geq$	><	><		
_			6.5	17.6	28.7	22.2	15.7	8.5	. 9	1.9			1	00.0	12.1
4:											TOTAL NU	MBER OF OBS	SERVATIONS		108
€:															

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 <u>0002</u>	MAUI OPTICAL	SITE HI SOUTH T	ONER	78-79	YEARS	 APR
• • • • • • • • • • • • • • • • • • • •			ALL WEAT			0300-0500 HOURS (L.S.T.)
	*********		CONDIT	ION		noone (main)

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N		• 9										• 9	6.D
NNE		1.9			1,9							3.7	12.0
NE					. 9							. 9	20.0
ENE	• 9	2.8										3.7	4.3
£		1.9	• 9					. 9				3.7	12.5
ESE	1.9	• 9	1.9	2.8								7.4	8.4
SE		2.8	6.5	. 9	.9		1,9					13.0	12.6
SSE		. 9	6.5	6.5	6.5	2.8	. 9					24.1	15.3
S		.9	3.7	2.8	. 9	. 9						9.3	12.0
55W	• 9		. 9	2.8								4.5	10.4
sw	1.9	1.9		1.9	1.9							7.4	10.0
WSW			. 9	1.9								2.8	11.0
w	1.9		1.9			2.8						6.5	12.9
WNW		1.9	1.9									3.7	6.0
NW	. 9	1	. 9	3,7								5.6	9.5
NHW	. 9		1.9									2.8	5.7
VARAL													
CAUA		$\boxtimes$	$\boxtimes$	> <	$\boxtimes$	$\supset <$	$\geq$	$\geq$	$\geq$	$\boxtimes$			
	9.3	16.7	27.8	23.1	13.0	6.5	2.8	.9		Ī		100.0	11.6

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 <u>0002</u>	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	APR MONTH
		ATHER	0600-0800 Hours (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥\$4	*	MEAN WIND SPEED
N			.9									• 9	10.0
NNE			2.8	.9	• 9							4.7	11.0
NE .	1.9	• 9	. 9			1.9						5.6	10.8
ENE	. 9	• 9	1.9									3.7	6.0
ŧ		1.9										1.9	5.5
ESE	2.8	1.9			1.9							6.5	7.1
SE		2.8	6.5	5.6	1.9	2.8						19.6	12.4
SSE	1.9	1.9	3.7	5.6	4.7	2.8	1.9					22.4	15.0
\$		. 9	2.8	4.7	. 9_	• 9						10.3	11,9
SSW	• 9		• 9	2.8								4.7	10.2
SW				. 9	. 9	1.9						3.7	20.5
WSW			1.9	• 9								2.8	8.7
w					1.9	• 9						2.8	21.3
WNW		. 9	. 9									1.9	6.5
NW		• 9	1.9	1.9								4.7	9.0
NNW		. 9	.9	1.9								3.7	10.5
VARBL									I				
CALM		$\boxtimes$	$\boxtimes$	$\boxtimes$	$\geq$	$\boxtimes$	$\boxtimes$	$\geq$	$\boxtimes$	$\geq$			
	8.4	14.0	26.2	25.2	13.1		1.9					100.0	12.0

TOTAL NUMBER OF OBSERVATIONS 107

WNW

NW NNW VARBL

1)

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#### SURFACE WINDS

0900-1100

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SITE HI SOUTH TOWER 78-79

WEATHER CLASS HOUMS (L.S.T.) CONDITION SPEED (KNTS) DIR, MEAN WIND 1 - 3 7 - 10 3.0 1.0 NNE 4.9 NE 1.0 ENE 1.0 1.0 1.9 ESE 1.0 1.0 1.0 SE 10.7 SSE 4.9 5.8 5.8 \$ 1.2 1.0 SSW 1.0 1.0 SW WSW

TOTAL NUMBER OF OBSERVATIONS

100.0

1.0

00002 STATION	MAUI						AND SECTION		)					
\$1×1104		OPTICAL	SITE	HI S	OUTH TO	DUER	78-7	19				_ <del></del>		PR
			BTATIO	N NAME		ALL NE	ATHER		Yı	CARS .			1200	
		-				CL CL	.AFS							18 (1.1
		-				CON	DITION							
		-												
1		<del></del>		<del></del>			<del></del>	r						т—
	SPEED (KNTS)	1.3	4.6	7 - 10	11 - 16	17 . 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	M W
	DIR.									,				\$1
	N		1.0	2.0									3.0	6
	NNE	<b> </b>	2.0	<del> </del>	<b> </b>		<u> </u>				<u> </u>		2.0	1 4
	NE ENE	<b> </b>	1.0		┼	-3-0	1.0	<del> </del>					2.0 5.0	12
	ENE		1.0	2.0	<b> </b>	2.0 1.G							4.0	9
	ESE		1.0	1.0	2.0	1.55							4.0	10
	SE		1.0	5.0	4.0		2.0	1.0					12.9	13
	388		3.0	5.9	6.9			1.0					16.8	10
	\$	1.0	2.0	4.0	1.0		7.0						8.9	9
	SSW	1.0	1.0	2.0	2.0	5.0							7.9	110
	wsw	-	2.0	1.0	3.0	2.0							5.9	12
	W W	<b> </b>	3.0	4.0	1.0	1.0						<del>-</del>	8.9	9
	WNW	1.0	3.0	1	1.0								5.0	5
	NW		3.0	2.0	1.0								5.9	7
	NNW	1.0	<b></b>	<u> </u>	<b></b> _		L						1.0	3
	VARBL		<b>-</b>	<del></del>	<b>_</b>							$\longrightarrow$	·	<del> </del>
	CALM	$\geq \leq$			$\geq \leq$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
		4.0	24.8	32.7	24.8	7.9	4.0	2.0					00.0	10
,		<u> </u>		**************************************		سمشيق ينبب					·			
										TOTAL NUA	MER OF OBS	ERVATIONS		1
												_		

### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUL OPTICAL SITE HE SOUTH TOWER	78-79	APR				
HOITATE	STATION NAME	YEARS	MONTH				
	ALL WE	1500-1700					
		GLASS					
	COL	NOITION					

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥54	*	MEAN WIND SPEED
N		2.0	2.0			1.0						4.9	10.2
NNE		2.0	1.0	1.0								3.9	7.8
NE	2.0	2.0	1.0			1.0						5.9	7.8
ENE		2.9	1.0									3.9	6.5
ŧ	1.0	2,9	3.9	1.0		1.0						9.8	8.5
ESE	1.0	2.0	5.9	1.0		1.0						10.8	9.3
SE	2.9		2.0	2.9			2.0			<u> </u>		9.8	11.9
SSE	1.0	2.0	2.0	6.9	2.0	1.0		1.0				15.7	13.9
\$	1.0	1.0	1.0	1.0		<u> </u>						3.9	7.0
SSW		1.0			1.0			<u> </u>		<u> </u>		2.0	11.5
SW_	1.0	2.0	2.0		2.9	1.0						8.8	12.2
WSW	1.0	1.0	1.0	2.9								5.9	9.8
W	1	2.0	1.0	2.0						<u> </u>	<u> </u>	4.9	8.4
WNW	1.0	2.0	<u> </u>	1.0	1.0							4.9	8.4
NW	2.9				1.0							3.9	6.3
NNW		1.0										1.0	5.0
VARBL						L							
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\times$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq$	$\geq \leq$	$\geq \leq$		
	14.7	25.5	23.5	19.6	7.8	5.9	2.0	1.0				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC SURFACE WINDS AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUI OPTICAL SITE HI SOUTH TOWER 78-79 ALL WEATHER 1800-2000 HOURS (L.S.T.) CONDITION SPEED (KNTS) DIR. 11 - 16 1 . 3 4 . 6 7 - 10 17 - 21 22 - 27 48 - 55 ≥54 6.0 2.0 2.0 2.0 1.0 NNE 6.9 14.6 2.9 1.0 3.9 NE 6.3 2.0 7.8 ENE 1.0 7.0 2.0 1.0 2.0 E 2.9 6.6 C ESE 1.0 2.9 7.0 7.8 1.0 2.0 2.0 2.9 SE SSE 1.0 4.9 6.9 3.9 1.0 18.6 14.6 \$ 1.0 2.0 2.9 1.0 2.0 8.8 12.0 1.0 1.0 2.0 16.0 SSW 1.0 2.9 1.0 1.0 1.0 6.9 9.1 SW 1.0 1.0 WSW 6.7 2.0 1.0 WNW 1.0 1.0 2.0 10.5 NW 2.0 2.0 5.9 11.8 1.0 NNW 1.D 2.0 7.5 CALM 100.0 TOTAL NUMBER OF OBSERVATIONS

1

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	APR MONTH
	ALL WEA		2100-2300 HOURS (L.S.T.)
	CONT	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 · 47	48 - 55	≥56	*	MEAN WIND SPEED
N			1.0	1.0								2.0	10.5
NNE		1.0	1.0			1.0						3.0	12.3
NE	1.0	1.0	1.0		1.0							4.0	9.0
ENE		1.0			1.0							2.0	12.0
ŧ	1.0	3.0	1.0	1.0								6.0	5.7
ESE			2.0									2.0	7.5
SE		2.0	4 . 0	11.0	1.0		2.0					20.0	12. 5
SSE	1.0		1:0	9.0	7.0	3.0						26.0	14.5
\$		2.7	1.0	2.0	1.0							6.0	9.7
SSW			2.0	1.0	1.0							4.0	12.5
SW	1.0	1.7	3.0		2.0							7.0	9.7
wsw	1.0		1.0	1.0								3.0	7.3
w	1.7	1.0			3.0							5.0	11.6
WNW	1.0	1.0										2.0	4.5
NW		2.0	1.0	3.0								6.0	10.0
NNW		2.0										2.0	5.0
VARBL			1	1									
CALM	$\geq$	$\geq$	$\geq$	$\boxtimes$	$\times$	$\times$	$\geq \leq$	$\boxtimes$	$\geq$	$\geq$	$\boxtimes$		
	7.3	T	24.9	29.0	17.0	4.0	2.0					100.0	11.4

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD2	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	APR MONTH
	ALL WEA	THER	ALL HOURS (L.S.T.)
	CONT	ITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 · 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.2	.6	. 8	• 1		, 1						1.9	8.0
NNE	• 2	1.4	1.3	• 6	• 6	• 2						4.5	9.5
NE	• 6	1.8	. 4	• 2	• 5	• 6						4.1	9.6
ENE	• 5	1.4	1.0		• 5	• 1						3.5	9.1
E	• 6	1.8	1.2	• 2	. 4	• 1		• 1				4.5	8.1
ESE	1.0	1.0	1.9	1.0	.6	. 1						5.5	9.3
SE	• 5	1.8	5.9	5.1	1.0	• 8	1.1	• 1				16.2	12.5
SSE	• 7	1.1	4.8	6.7	4.3	1.9	- 8	• 5				20.9	14.9
S	• 5	1.7	2.9	2.6	• 7	• 6						9.0	10.7
SSW	.4	• 5	. 8	1.2	.7							3.6	11.0
sw	• 7	1.1	1.3	1.2	1.6	.4						6.3	11.5
wsw	.6	• 6	1.3	1.8								4.3	8.7
w	. 8	.7	- 8	• 5	1.3	. 8						5.1	12.5
WNW	.8	1.4	. 4	• 2	• 2							3.1	6.3
NW	.7	1.7	1.1	1.6	• 5							5.5	8.8
NNW	• 2	• 6	• 6	• 5								1.9	7.3
VARBL													
CALM		$\boxtimes$	$\geq$	$\times$	$\boxtimes$	$\boxtimes$	$\geq$	$\boxtimes$	$\geq$	$\geq$	$\geq \leq$		
	9.1	19.3	26.6		12.9	5.9	1.9	• 7				120.0	11.2

TOTAL NUMBER OF OBSERVATIONS 831

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	MAY MONTH
	ALL WEA	ATHER	0000-0200
	GL.	A85	HOURS (L.S.T.)

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	44 - 55	≥54	*	MEAN WIND SPEED
N	1.4	1.4	2.2			1.4						6.5	9.6
NNE			. 7			_,7						1.4	16.D
NE	1.4	.7		.7								2,9	5.5
ENE	1.4	2.9	.7	1.4								6.5	6.7
ŧ	. 7	.7	2.2	• 7								4.3	7.8
ESE	1.4	.7	2.2	• 7								5.1	7.6
SE		2,9	4.3	3.6	2.2							13.0	10.8
SSE	, 7	1.4	2.2	1.4	1.4	2,2	2.9					12.3	17.4
\$		.7	2.2	5.1	• 7							8.7	12.5
SSW			2.2	1.4	. 7							4.3	12.0
sw	1.4		.7	• 7								2.9	6.5
WSW	2.2		.7	.7								3.5	4.8
W		1.4	2.2	2.2								5.8	9.0
WNW	.7	2.9	1.4	3.6	1.4							10.1	10.4
NW	. 7		2.9	.7	2.9							7.2	12.6
MNW	2.2	1.4		1.4								5.1	7.1
VARBL													
CALM		$\boxtimes$	$\boxtimes$	$\boxtimes$	$\times$	$\boxtimes$	$\times$	$\times$	$\geq$	$\times$	$\geq \leq$		
	14.5	17.4	26.8	24.6	9.4	4.3	2.9					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS

1 GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS 2 USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUL OPTICAL SITE HI SOUTH TOWER 78-79 WEATHER 0300-0500 HOURS (L.S.T.) CONDITION MEAN WIND SPEED SPEED (KNTS) DIR. 11 - 16 17 - 21 22 - 27 ≥56 5.6 NNE 1.4 •7 4.3 NE 4.3 5.3 ENE 2.9 1.4 •7 E 2.2 3.6 ESE 2.9 3.6 SE 4.3 1.4 SSE 1.4 3.6 1.4 5 1.4 2.2 SSW 5.8 10.6 2.9 SW 1.4 WSW W 2.2 1.4 4.3 WNW 2.9 10.9 10.1 NW 8.8 HHW VARIL 100.0 TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

. 12

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY C BSERVATIONS)

00002	MAUL OPTICAL SITE HE SOUTH TOWER	78-79	MAY
STATION	STATION HAME	YKARS	MONTH
	ALL WEAT	HER	0600-0800
	CLASS		HOURS (L.S.T.)
	CONDIYI	ON	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N			.7									.7	10.0
NNE				. 7	• 7		Ī					1.4	14.D
NE	, 7			1.4	, 7							2.9	11.5
ENE	1.4	3.6	2.9	2.2								10.1	7.5
E			.7									.7	8.0
ESE	. 7	1.4	3.6									5.8	6.8
SE	. 7	2.2	3.6	1.4	2.2	. 7	, 7					11.6	12.1
SSE			2.2	3.6	4.3	• 7	2.9					13.8	17.8
\$	2.2		1.4	2.9								5.5	8.8
SSW	2.2		2.2	1.4								5.8	8.0
SW	1.4	1.4	. 7	3.6								7.2	8.8
WSW	2.9	• 7	• 7	.7								5.1	5.3
W	. 7	1.4		2.2								4.3	9.3
WNW	1.4	2.2	1.4	1.4	. 7							7.2	8.2
NW	2.2	3.6	.7	3.6	2.2							12.3	9.6
NNW			2.9	1.4								4.3	9.5
VARBL													
CALM			$\boxtimes$	$\supset <$	$\boxtimes$	$\supset <$	$\times$	$\boxtimes$	$\boxtimes$	$\supset <$			
	16.7	16.7	23.9	26.8	10.9	1.4	3.6					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS

USAFETAC  $_{
m AU,~64}^{
m FORM}$  0-8-5 (OL-A) previous editions of this form are obsolete

GLOBAL CLIMATOLOGY PRANCH
USAFETAC
AIR NEATHER SERVICE/MAC
PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

1
30002 MAUI OPTICAL SITE HI SOUTH TOWER 78-79
PAY
MONTH
CLASS
CLASS

GONDITION

SPEED
(KNIS)
1-3 4-4 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 254 3 WIND

THE PARTY OF

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N		1.5										1.5	6.0
NNE		3.0	.7	1.5				<u> </u>			<del>                                     </del>	5.2	5.9
NE	, 7	1.5	1.5					1			<del></del>	3.7	6.4
ENE	2.2	.7	2.2	1.5								6.7	7.6
ŧ		, 7	1.5	.7								3.0	7.5
ESE		2.2	2.2									4.4	7.3
SE	.7	2.2	1.5	5.2	• 7	1.5						11.9	11.5
SSE	. 7	2.2	1.5	3.0	2.2	1.5	1.5					12.5	15.1
5	1.5	2.2	1.5	2,2	, 7							8.1	8.5
SSW			1.5	1.5								3.0	11.3
sw	1.5	. 7	. 7		• 7							3.7	6.8
WSW	1.5	1.5	2.2	1.5	.7							7.4	8.4
w		3.0	5.2	2.2	. 7							11.1	9.3
WNW	2.2	. 7				2.2	L					5.2	12.0
NW	.7	2.2	2.2	3.0	. 7				L			8.9	9.4
WHM	. 7	.7	. 7	. 7	. 7							3.7	9.2
VARSL													
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq \leq$	$\geq$			
	12.6	25.2	25.2	23.0	7.4	5.2	1.5				Γ	100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 135

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00005	MAUL OPTICAL SITE HE SOUTH TOWER	78-79	μAΥ
STATION	STATION NAME	YEARS	MONTH
	ALL WE	THER	1200-1400
	CL	ASS	HOURS (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.4		2.2									3.6	5.8
NNE	, 7	3.6	1.4	1.4								7.2	6.5
NE		1.4	1.4									2.9	7.5
ENE		2.9	. 7	.7								4.3	6.
E		1.4	.7									2.2	6.
ESE	.7	5.0										3.6	4.1
SE		2.2	1.4	1.4	. 7							5.8	9.1
SSE	, 7	3.6	1.4	2.2	2.9	. 7	, 7	1.4				13.7	14.
<b>S</b>	. 7	• 7	2.2	1.4	.7	. 7						6.5	10.
SSW		1.4	2.9									4.3	7.
sw		2.9	2.2									5.0	7.
wsw		2.9	3.6	. 7	.7							7.9	8.
w	1.0	5.J	.7	2.2	.7							10.1	7.
WNW	1.	.7	4.3	1.4								7.9	7.
NW	. 7	2.2	3.6	1.4	. 7							8.6	8.
NHW	. 7	1.4	2.2	. 7	1.4							6.5	9.
VARSL													
CALM	><	$\supset <$	$\supset \subset$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	> <	$\supset <$	$\supset <$	$\supset \subset$		
	R.A	35.3	80.9	13.7	7.9	1.4	. 7	1.4	·			100.0	8.

TOTAL NUMBER OF OBSERVATIONS

€.

#### SURFACE WINDS

1500-1700 HOURS (L.S.T.) # 45 #52###

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

WEATHER

CONDITION

YEARS

TOYAL NUMBER OF OBSERVATIONS

STATION NAME 78-79

SPEED (KNTS) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*
N		2.2	2.2	.7				·				5.
NNE	, 7	1.4	,7									2.
NE	1.4	1.4	. 7	1.4								5.
ENE		• 7	1.4	.7					i			2.
E	• 7	1.4	1.4	1.4								5.
ESE	1.4	1.4	2.2	1.4								6.
SE	, 7	2.2	3.6	3.6		• 7						10.
SSE	, 7		.7	. 7		3.6	<b>6</b> ~					6.
S	.7	1.4		1.4	1.4	. 7						5.
SSW		. 7	.7	2.2								3.
SW	2.2	1.4	4.3	1.4								9.
WSW	1.4	5.1	1.4	1.4	.7							10.
w	. 7	. 7	1.4	1.4	. 7							5.
WNW	.7	2.2	1,4	. 7								5.
NW	1.4	1.4	3,6	1.4	. 7							8.
NNW	.7	1.4	3.6	1.4								7.

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CONDITION

MAUI OPTICAL SITE HI SOUTH TOWER 78-79

ALL WEATHER

CONDITION

CONDITION

MAY

MAY

HOURS

HOURS

CONDITION

SPEED (KNTS) DIK.	1 - 3	4.4	7 - 10	11 - 16	17 • 21	22 · 27	26 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	.7			• 7	• 7							2.2	11.0
HME	1.5		2.2	1,5	, 7							5.8	9.5
NE		2.9	• 7	1.5								5.1	8.0
ENE		2.2	.7	2.2		I						5.1	9.1
E	1.5	1.5	2.2	• 7								5.8	6.1
ESE	• 7	1.5	1.5									3.6	6.1
SE	.7	2.9	5.1	3.6	2.2							14.5	11.0
SSE	2,2	Ţ	3.6		,7	2.2	2.2					10.9	16.
\$	.7		.7	2.2	.7							4.4	11.
SSW	. 7	2.9	• 7		•.7	• 7						5.8	8.
SW	1.5	2.2	1.5	1.5								6.5	7.
wsw	1,5	2.2	.7	.7	• 7							5.8	7.
w	2.9		2.9	1.5								7.3	6.
WNW	. 7	. 7	2.9	.7		• 7						5.8	9.
NW	2.2	1.5	2.2	2.2	.7	.7						9.3	9.
NNW					1.5							1.5	17.
VARSL	1	1				<u> </u>							
CALM	$\supset <$	$\supset <$	$\supset <$	$\supset <$		$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$		
	17.5	20.4	27.7	19.0	8.8	4.4	2.2					100.0	9.

TOTAL NUMBER OF OBSERVATIONS

137

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODO2	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	HAY MONTH				
		ALL WEATHER					
	CON	DITION					

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	54 · 40	41 - 47	A3 - 55	≥:54	*	MEAN WIND SPEED
N													
NNE	.7	1.4	• 7	,7	1.4	• 7						5.8	11.4
NE		3.6	.7	.7							l	5.1	7.4
ENE		. 7	1.4	2.9		• 7						5.8	11.9
ŧ	. 7	2.2	1.4	1.4								5.8	7.4
ESE		2.9	1.4									4.3	6.0
SE		2.2	5.1	3.6	1.4	• 7						13.0	11.6
358	. 7	2.2	3.6		2.2	2.2	2.2					13.0	16.2
<u> </u>	. 7		1.4	1.4	.7	, 7						5.1	12.9
ssw		1.4		. 7	1.4							3.5	13.2
sw	.7	2.2	2.2	2,2								7.2	7,7
WSW	1.4		2.2	1.4								5.1	8.7
w_	1.4		2.2	2.9								6.5	9.6
WNW		1.4	1.4	2,9	1.4							7.2	11.4
NW	. 7	.7	3.6			2.2			<u></u>	L		7.2	11.6
NNW	. 7	1.4		2.2	.7							5.1	9.7
VARSL		<u> </u>											
CALM	$\geq \leq$	><	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	8.0	22.5	27.5	23.2	9.4	7.2	2.2					100.0	10.9

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SCGC	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	YAY HTMOM
		ATHER	ALL
	HOURS (L.S.T.)		
	3371	HITION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 • 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	256	*	MEAN WIND SPEED
N	• 5	.6	. 9	• ?	• 2	. 4						2.7	9.8
NNE	• 6	1.4	• 8	• 8	• 4	• 2						4.2	8.5
NE	.7	1.5	, 8	. 8	• 1							4.0	7.3
ENE	• 6	2.1	1.5	1.5		•1						5.7	7.9
E	, 5	1.3	1.7	• 7								4.2	7.2
ESE	. 7	1.7	1.8	• 3								4.5	6.6
SE	• 5	2.5	3.6	3.0	1.6	• 5	(1					11.9	11.1
SSE	,7	1.4	2.1	1.8	1.9	2.1	1.8	• 2				12.7	15.6
S	. 8	. 9	1.4	2.4	. 7	• 3						6.4	10.7
S5W_	• 5	. 8	1.5	1.1	. 4	.1						4.5	9.7
sw	1.3	1.5	1.5	1.5	• 2							6.0	7.8
WSW	1.5	1.5	1.6	. 9	. 4							6.0	7.1
W	1.3	1.7	1.8	2.0	• 3	<u> </u>						6.8	8.5
WNW	1.0	1.6	1.8	1.7	. 9	. 4	<u></u>					7.4	9.8
NW	1.3	1.3	2.6	1.9	1.1	. 4						9.1	9.9
NNW	• 6	. 9	1.5	1.1	• 5							4.5	9.0
VARBL													
CALM	$\times$	$\geq \leq$	$\boxtimes$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\times$	$\boxtimes$	$\geq$	$\boxtimes$		
	12.9	23.3	27.1	21.7	8.6	4.4	1.9	. 2				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

12

## SURFACE WINDS

د دو. انتخاب

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODO2	MAUI OPTICAL SITE HI SOUTH TONER	78-79 YKARS	JUN HTMOM
	ALL WE	ATHER	0000-0200 HOURS (L.S.T.)
	GO	SOLTION	

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	27 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	• 6	1.7	1.7			. 6					5.6	10.6
NNE	1.7	1.1	5.1	2.8	1.7	1.1						13.5	11.3
NE	.6	2 , 3	2.3	3.4	1.7							10.7	10.6
ENE	.6		1.1	1.1	<u> </u>							2.8	10.6
ŧ	. 6	1.1	1.1									2.8	6.0
ŧsŧ		1.7	1.7	1.1								5.1	9.4
SE	1.)	1.7	4.0	4.0	1.1			<u> </u>		<u> </u>		11.9	10.4
388			2.3_	5.1	2.8	1.7				<u> </u>		11.9	15.7
\$	1.1	.6	1 2 <u>. s</u>	5.1	.6	.6						10.7	11.9
SSW	2.3	2.3	J			<u> </u>			<u></u>	<u></u> ,	<u> </u>	5.1	3.7
SW	. 6	107_	l			L					]	2.3	4.0
wsw	٠,٤		.6									1.7	4.7
w	2.3	6	1.1			<u> </u>		<u> </u>				4.0	4.7
WNW	3.4	L6_			<u></u>	l				<u> </u>		4.0	2.7
NW		1.1	<u> </u>	1.7		1.1			L			4.5	12.8
NWW	. 6	• 6	1.7	<u> </u>	<u> </u>	.6			L			3.4	9.2
VARP:	)			<u> </u>					1				
CAUK	$\geq \leq$	$\geq \leq$	$\geq$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$\geq \leq$			
	17.5	16.4	1	26.6	7,9	5.1	.6	<u> </u>				100.0	10.1

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER 78-79	JUV MONTH
	ALL WEATHER	0300-0500
	CLASS	HOURS (L.S.T.)
	CONDITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	<b>38 · 3</b> 3	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.7	, 6	1.7	1.7	1.7	• 6						7.9	10.9
NNE		1.7	5.1	5.1	1.1							13.0	10.2
NE	.6	.6	2.3	4.5	. 6						ļ	8.5	10.5
ENE		. 6	• 6	• 6								1.7	7.3
ŧ	• 6	2.3	1.1	•6								4.5	6.6
ESE	• 5	1.7	2.8	1.7								6.8	7.9
SE	• 5	2.3		2.3	1.1							6.2	10.7
SSE	1.1	.6	1.1	8,8	5.1							14.7	13.8
S	2.3	1.1	2.8	1.1	3.4							10.7	10.8
SSW	• 5	1.7	. 6	• 6		• 6						4.0	8.7
S#/	• 6											• 6	3.0
W:SW	. 6	• 6										1.1	2.5
W	2.3	1.1	• 6									4.0	3.4
WNW	,6	1.1	• 6	.6	.6							3.4	8.5
NW	1.7	. 6		.6	1.1		I					4.0	8.9
NNW	2.3	3.4	2.3	.6	• 6							9.0	6.7
VARBL													
CALM			$\geq \leq$	$\geq <$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq$	$\boxtimes$	$\geq$	><		
	15.8	19.8	21.5	26.6	15.3	1.1						100.0	9.7

TOTAL NUMBER OF OBSERVATIONS

1

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### SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUL OPTICAL SITE HI SOUTH TOWER 78-79

•			• •••••					•				_	
					ALL WE	ATHER			-				-0800
												HOU	ts (L.S.T.
	_				CON	DITION							
						0,11010							
	_												
SPEED (KNTS)	1.3	4.4	7 - 10	13 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	44 - 55	≥56	*	MEAN
DIR.													SPEED
N	. 5	. 6	• 6	1.7	1.7	.6						5.7	12.9
NNE	. 6	1.7	5.7	6,8								14.8	9.7
NE	1.1	1.7	2.8	1.7	.6	1.1						9.1	10.9
ENE	1.7	1.1										2.8	3.4
E	.6	4.5	1.1									6.2	4.9
ESE	• 6	2.8_		2.3								5.7	7.7
SE	• 6	3,4	1.1	1.1	1.7							8.0	9.1
SSE		1.1		6.8	3.4							11.4	14.6
S	1.1	1.7	• 6	4.5	4.0							11.9	12.3
SSW	1.1	1.1_	6									2.8	4.4
sw	1.7											1.7	2.7
wsw	2.3											2.3	2.5
w	. 6	1.1										1.7	4.3
WNW	1.1	1.1	1.1	• 6								4.0	6.4
NW	• 6	• 6	1.7	1.1	• 6	. 6						5.1	11.3
NNW	1.7	1.7	1.7		1.1	. 6						6.8	8.4
VARBL													
CALM	$\times\!\!<$	> <	><	$\times$		$\boxtimes$	$\geq \leq$	><	$\boxtimes$	$\supset <$	><		
	-	211 /	. 7 0	2, 3		2.0						1000	

### SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

172

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-79

	_				ALL WE							0900	-1100
					C	LASS						HOUI	RS (L.S.T.)
	-												
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	49 - 55	≥54	*	MEAN WIND SPEED
N	1.2		1.2	3.5		.6				<u> </u>		6.4	11.7
NNE	- 6	1.2	4.1	4.7	. 6_							11.0	10.6
NE	.6	1.7	4.1	.6								7.0	8.2
ENE	1.2	• 6	• 6	.6	1.2	• 6						4.7	12.3
E	1.2	1.2	1.2									3.5	4.8
ESE	2,3	2.9	2.9	2.9	• 6							11.6	7.8
SE		2.3	2.3	1.7								6.4	8.5
SSE		2.9	2.3	3.5	2.3	2.3						13.4	13.3
\$	1.2	. 6	1.7	1.7	2.9	.6						8.7	12.3
SSW	1.2	2.9		. 6								4.7	5.4
sw	1.7	1.2										2.9	3.6
WSW	• 5											.6	3.0
W	1.2	, 6	1.7				i					3.5	5.2
WNW	• 5	2.3		• 6								3.5	6.5
NW	. 6	1.7	• 6		• 6	• 6						4.1	9.4
NNW	1.7	1.7	2.9	1.2	.6							8.1	7.9
VARBL				I									
CALM	$\geq \leq$	$\geq \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\boxtimes$	$\times$	$\geq \leq$	$\geq$	$\times$	$\ge$		
	15.7	27.0	25.6	21.5	8.7	4.7						100.0	0.3

1 (1) GLOBAL CLIMATOLOGY BRANCH `2 SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND (]DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) () MAUI OPTICAL SITE HI SOUTH TOWER 78-79 3000Z JUN () ALL NEATHER 1200-1400 HOURS (L.S.T.) CONDITION 1 MEAN WIND SPEED SPEED 17 - 21 7 - 10 11 - 16 1 - 3 22 - 27 28 - 33 48 - 55 ≥54 (KNTS) () 12.0 4.0 13.3 N <u>3,5</u> \_•6 5.2 2.9 NNE 2.9 6.9 8.3 • 5 •6 () 1.7 Nż 3.5 2.3 8.5 8.1 .6 7.0 ENE 2.3 2.3 5.8 . 6 . 6 6.7 ŧ 2.9 • 6 6.9 1.2 •6 6.9 ESE 2.3 1.7 4.0 8.8 1.7 2.9 2.9 SE 1.2 8.7 1.7 SSE 1.2 4.0 11.6 11.7 1.7 2.3 5 1.7 . 5 8.7 11.5 7.6 1,2 2.9 SSW . 6 • 6 1.2 5.2 1.2 2.9 SW . 6 2,3 4.2 1.2 WSW 1.7 1.2 2.3 5.2 4.4 W 1.2 2.3 4.3 WNW •6 2,3 2.9 5.0 NW NNW . 5 1.2 2.9 6.4 8.1 VARSL CALM 100.0 TOTAL NUMBER OF OBSERVATIONS 173

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUL OPTICAL SITE HE SOUTH TOWER	78-79	JUN
STATION	STATION NAME	YEARS	MONTH
	ALL WE	ATHER	1500-1700
	c	LASS	HOURS (L.S.T.)
	CON	IDITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	• 5	1.1	1.7	3.4								6.9	10.3
NNE		2.3	3.4	6.3	• 6							12.5	10.9
NE	1.1	• 6	1.1	1,1								4.0	6.7
ENE	• 5	2.9										3.4	4.5
Ę	• 6	1.1	1.1	• 6								3.4	6.5
ESE		2.3	1.1	1.1								4.6	7.4
SE	1.1	1.7	4.6	5.1	• 6							13.1	9.6
SSE		.6	1.7	5.7	1.7	• 6						10.3	13.7
5	٠, ن	1,7		1.1	2.3							5.7	11.1
ssw	• 5	1.7										2.3	4.0
SW	.6	1.1										1.7	3.7
WSW	1.1	1.1										2.3	3.8
W	. 5	2.3	1.1									4.0	5.4
WNW	.6	4.0	1.7									6.3	5.8
NW	3.4	4.0	2.9									10.3	4.9
NNW	1.1	1.1	3.4	2.9	• 6							9.1	9.8
VARBL													
CALM		$\geq \leq$		$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq <$		
	12.5	29.7	24.0	27.4	5.7	• 6						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 175

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## SURFACE WINDS

1800-2000

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## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

HAUI OPTICAL SITE HI SOUTH TOWER 78-79

	-				CON	DITION				<del></del>			
SPEED (KNTS)	1.3	4-4	7 - 10	11 - 16	17 • 21	22 · 27	28 - 33	34 · 40	41 · 47	48 - 55	≥56	*	MEAN WIND SPEED
DIR.								<u> </u>					SPEED
×	• 6	1.7	5.7	2.3	3.4	İ		<u> </u>				13.6	11.2
NNE	• 6	• 6	4.0	7.4	• 6							13.1	11.0
NE		2,3	3.4	1.1	L	<u> </u>						6.8	7.3
ENE	• 6	2.3		• 6				<u> </u>				3.4	5.5
Ę	• 6	1.7	1.1									3.4	5.7
ESE	• 6	1.1	1.7	2.3								5.7	8.6
SE	. 6	2 . 3_	4.0	10.2					<u></u>			17.0	10.3
SSE	• 6	• 6	1.1	2,3	4.0	2.8						11.4	15.7
S	• 5	1.7		. 6	1.7	. 6						5.1	12.7
SSW	• 6									<u></u>		. 5	2.0
SW	• 5	• 6				<u> </u>						1.1	4.5
WSW	1.1	1.1										2.3	3.3
w	1.1	1.1			<u> </u>			<u> </u>				2.3	4.3
WNW	1.1	. 6	•6		<u> </u>	<u> </u>						2.3	5.0
NW	1.7	.6	1.1		• 6		<u> </u>					4.0	6.7
NNW	• 6	3.4	• 6	2.3	1.1							8.0	9.6
						4	1	•			1	76	

TOTAL NUMBER OF OBSERVATIONS 176

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-79

			<del></del> .		GI GI	ASS		<del></del>		<del></del>		HOUL STOR	- 23(1)
	_	<del></del>			CON	DITION	·	<u></u>	<del>,</del>				
	-					r					<u> </u>	T	<del>,</del> -
SPEED (KNTS) DIR,	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥\$\$	*	MEA WIN SPEE
N		1.7	2.8	2.8	1.7	• 6	• 6					10.2	13.
NNE		1.7	5.1	5.1		. 0						12.5	10.
NE	1.1	1.7	3.4	2.3								8.5	8.
ENE		1.7	2.3	2.8	<u> </u>							6.3	8.
E	1.1	1.1	1.7	• 6								4.5	7.
ESE			1.1	3.4								4.5	12.
SE		1.1	5.1	5.1	1.1							12.5	11.
358		1.1	2.8	2.3	2.8	2.8	• 6					12.5	15.
<u> </u>	1.7	2.3	• 6	4.0	<u></u>							8.5	8.
SSW	1.1								<u></u>			1.1	3.
SW	2.3	1.1										3.4	3.
WSW	1.1				<u> </u>							1.1	1.
w	2.3	•6	1.1		<u> </u>		<u> </u>					4.0	4.
WNW	.6	.6	•6							<u> </u>		1.7	5.
NW	. 6	•6			1.7							2.8	12.
NNW	1.1	• 6	1.7	1.1	.6							5.1	8.
VARBL	1												1

TOTAL NUMBER OF OBSERVATIONS

176

GLOBAL CLIMATOLOGY BRANCH USAFETAC

AIR WEATHER SERVICE/MAC

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### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	MAUL	OPITCAL	STATIO	STATION NAME  ALL WEATHER										IONTH
		_											A	LL
						CL	ASS						HOUR	S (L.S.T.)
		_				CON	DITION							
						COM	D1110H							
		_												
	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 • 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
İ	N	. 7	1.2	2.0	2.8	1.6	. 3	•1					8.7	11.6
[	NNE	• 5	1.6	4.1	5.1	• 6	• 2						12.2	10.5
[	NE	• 7	1.6	2.9	2.1	.4	_•1						7.8	9.1
[	ENE	• 6	1.4	• 9	. 8	• 1	_• 1						3.9	7.7
ĺ	t	. 9	2,0	1.2	• 3	• 1							4.4	6.1
[	ESE	• 5	1.9	1.6	1.9	• 1							6.0	8.4
	SE	.7	2.0	3.0	4.1	• 7							10.5	9.9
(	SSE	. 4	1.1	1.9	4.1	3.2	1.4	• 1					12.1	14.4
Į.	\$	1.1	1.4	1.3	2.6	2.1	. 2						8.8	11.4
Į	SSW	1.1	1.3	. 3	• 2		.1						2.9	5.4
l	SW	1.1	• 8	•1									2.1	3.8
	WSW	1.1	. 7	-1									1.9	3.4
Į.	w	1.5	1.2	• 9									3.5	4.6
	WNW	1.1.	1.4	• 6	. 2								3,4	5.6
Į	NW	1.1	1.4	, 9	. 4	- 6	3_						4.7	8.4
ļ	WNN	1.2	1.7	2.1	1.2	•6	-1	<u></u>					7.0	8.5
	VARSL													ļ
	CALM	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	> <	><	> <	> <	$\geq \leq$	$\geq \leq$	><		

TOTAL NUMBER OF OBSERVATIONS 1402

> SSW SW WSW W

NW

NNW

VARBL

C

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### SURFACE WINDS

JUL

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

	_				ALL WE							0000	-0200
					G	LASS						HOU	P\$ [L.S.T.]
					CON	DITION							
SFEED (KNTS)	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	40 - 55	≥54	<b>*</b>	MEAN WIND
DIR.	. 4	1.3			1.3	1.8							SPEED
NNE	• 4	1.8	1.3	2.7	1.3	1.0	<del> </del>					5.8	10.1
NE		1.8	1.8	3.6	.9	.4						8.4	11.3
ENE		1.3	4.4	2.2	• 9							8.9	10.2
ŧ		2,2	3.6	3.1	1.3	. 4						10.7	11.0
ESE	. 4	2.7	5.3	. 9	. 4							9.8	8.1
SE	. 4	2,2	6.7	4.9	1.3							15.6	10.3
SSE		1.7	7 1	6.7	1.0	. 4						17.7	11.0

• 9

. 4

TOTAL NUMBER OF OBSERVATIONS

4.0

4.0

18.0

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1.3

62 GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) 1 MAUI OPTICAL SITE HI SOUTH TOWER 78-80 JUL WEATHER GLASS 0300-0500 HOURS (L.S.T.) CONDITION SPEED (KNTS) MEAN WIND 1 - 3 11 - 16 17 - 21 28 - 33 ≥ # 48 - 55 11.8 N 1.7 9 •4 1.7 NNE 10.6 4.4 2.2 3.5 2.6 3.1 NE ENE . 9 10.2 1.7 10.0 • 9 ŧ 2.6 10.8 4.4 4.8 16.2 ESE . 9 7.9 2.6 3.9 • 4 8 • 5 •4 SE 2.2 7.9 6.1 16.6 10.2 SSE . 4 2.2 3.1 . 9 8.3 13.3

. 4

THE PERSON

TOTAL NUMBER OF OBSERVATIONS 229

8.3

6.1 4.8 10.5

5.0

6.6

15.9

18.7

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

3.9

1.3

. 4

1.3

. 4

• 9

. 4

SSW

SW WSW

w

WNW

NW

VARBL

3.1

. 9

## SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SUBDE NOITATE	MAUI OPTICAL SITE HI SOUTH TOWER	78-80	JUL MONTH
	ALL WE	ATHER	3630-0800
	Ğı	LASS	HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1.3	4+6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	44 - 55	≥54	*	MEAN WIND SPEED
N	. 4	• 4	. 4	• 9	• .7.	. 4						3.5	12.6
NNE		. 9	. 9	1.3	• 4	. 4						4.0	12.
NE		• 9		5,7	1.3							7.9	13.
ENE		1.3	4.0	2.6	1.8	. 4						10.1	11.
E		2,6	6.6	4.0	1.3							14.5	10.
ESE		2,2	4.0	1.3								7.5	8.
SE		3.1	6.6	6.2	. 4	. 4						16.7	9.
SSE	.4	1.8	1.8	, 9	2.6	1.8						9.3	13.
\$	. 4	. 9	. 4	1.8	. 9							4.4	11.
SSW	. 4	, 9	1.3	1.3								4.0	8.
SW													
wsw	. 9	, 9										1.3	3.
w	.4	1.9	1.3									3.5	5.
WNW		. 9	. 9									1.8	7.
NW	. 4		. 9	, 9		. 9						3.1	13.
NNW		1.3	. 9	2.2	2.6	.9						7.9	14.
VAROL													
CALM	$\supset <$	$\supset <$	$\supset \subset$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$			
<u></u>	3.5	10.0	30.0		12.3	5.3						100.0	11.

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUT OPTICAL SITE HI SOUTH TOWER 78-80 0900-1100 HOURS (L.S.Y.) CONDITION MEAN WIND SPEED 1 - 3 7 - 10 (KNTS) DIR. 17 - 21 22 - 27 . 4 13.0 NNE 10.5 . 4 . 4 2.6 9.7 ENE 4.4 2.2 1.3 8.5 11.3 15.8 10.8 4.4 1.8 ESE 9.6 4.4 14.0 10.2 1.8 SSE 1.8 1.8 SSW SW 2.6 WSW . 9 . 4 1.3 9 WNW 1.8 3.9 NW . 4 NNW VARBL TOTAL NUMBER OF OBSERVATIONS USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 <u>0002</u>	MAUI OPTICAL	SITE HI	SOUTH TOWER	78-80	YEARS		JUL MONTH
				EATHER		•	1200-1400 HOURS (L.S.T.)
				INDITION			NOUNS (E.S.T.)
					· · · · · · · · · · · · · · · · · · ·		

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIP10 SPEED
N	. 9	, 9	1.7	2.1	• 9	, 4	, 4					7.3	12.4
NHE		. 4	2.5	1.7	2.1							6.9	12.
NE	. 9	. 9	1.7	1.7	. 9							6.0	10.
ENE		2.1	1.7	2.1	1.7	. 4						8.2	11.
E		2.1	3.0	1.3	1.3	. 4					I	8.2	11.
ESE	. 4	1.7	3.0	2.1							,	7.3	8.
SE	1.3	3.0	4.3	4.3	3.0							15.9	10.
SSE	, 9	. 4	2.1	2.1	1.3	. 9		, 9	I			8.6	14.
S	. 9	2.6	1.7	1.3	• 9							7.3	8.
SSW		1.7	1.3	. 4								3.4	7.
SW	1.3	1.7	1.3									4.3	5.
wsw	. 4	. 9	. 4									1.7	4.
w	٠,	2.1	. 4	. 4								3.9	6.
WNW	. 4	1.7										2.1	4.
NW	. 4	. 9	. 9	2.1								4.3	9.
NNW	. 4	. 4	1.3	.9	1.3	.4						4.7	13.
VAZBL													
ÇALM	$\geq <$	$\geq$	$\boxtimes$	$\geq$	$\times$	$\times$	$\geq$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\supset <$		
	9.0		27.5		13.3	2.6	. 4	.9				100.0	10.

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002 MOITATE	YAUI OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	JUL MONTH
		ATHER	1500-1700 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 · 3	4+6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	, 4	1.3	1.3	2.1	. 9	. 4						6,4	11.6
NNE		1.7	• 9	3.9	• 9							7.3	10.9
NE	, 9	1.7	1.7	. 9	1.3							6.4	9.1
ENE	• 9	• 9	3.9	2.1	2.1							9.9	10.7
ŧ	. 9	3.0	2.6	1.7	1.7							9.9	9.5
ESE	. 4	2.1	1.7_	. 4								4.7	7.2
SE	. 9	1.7	3.0	2.6	3.0	• 9						12.0	12.4
SSE	, 4	1.3	3.0	3,9			. 4					9.0	10.2
5	. 4	4.3	1.7_	. 4			• 9					7.7	9.1
SSW	• 9	1.3	• 9	. 4	4							3.9	7.7
SW	. 4		. 4									• 9	4.5
wsw	• 9	1.7	1.3									3.9	5.1
w	• 9	3.0	• 9									4.7	5.0
WNW		. 4										. 4	4.0
NW		1.7		1.7	• 9	. 4						4.7	12.2
WMM	. 4		1.3	3.4	2.6	.4						8.2	14.5
VARBL													
CALM				$\supset <$	> <	><	><	$\times$	$\supset <$	$\supset <$	><		
	8.6	26.2	24.5	23.6	13.7	_2.1	1.3					100.0	10.1

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2000	MAUI OPTICAL SITE HI SOUTH TOWER	79-80	JUL
STATION	STATION WAME	YEARS	MONTH
	ALL WEA	THER	1800-2000
	CL	A88	HOURS (L.S.T.)
	CONT	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N _	.4	, 9	. 9	2.2	. 9							5.2	11.4
HHE	• 9	, 9	• 4	3.0	• 9							6.0	10.2
NE	. 9	1.3	2.6	3.4	1.3	. 4						9.9	12.1
ENE		4.3	2.2	3.9	1.3	. 4						12.1	10.6
ŧ		2.2	3.9	2.2	1.3							9.5	10.3
ESE		1.3	1.7	1.7	, 0							5.6	10.8
SE	. 9	4.5	3.4	5.2	• 9							14.7	9.6
SSE	, 9	1.7	1.3	4.3	. 4	., 9						9.5	11.2
<u> </u>	. 4	1.3	3.0	1.3	. 4							6.5	8.9
SSW	. 4	1.7										2.2	4.6
SW		. 9	. 4									1.3	6.3
WSW		, 9		. 4								1.3	7.7
w	. 4	, 9	. 4									1.7	5.0
WNW	. 4	1.3	, 9									2.5	6.0
NW	, 9	1.7	. 4	. 4								3.4	5.6
MMM		• 4	1.3	2.2	2.2	1.7	. 9					8.6	17.7
VARN													
CALM	$\times$	$\boxtimes$	$\geq$	$\times$	$\boxtimes$	$\boxtimes$	$\geq$	$\geq$	$\boxtimes$	$\boxtimes$	$\geq$		
	1	25.9	22.8		10.3	3.4	.9					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS 232

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	JUL
		ATHER	2100-2300 HOURS (L.S.T.)
	CONI	DITION	

SPEED (KNTS) DIR.	1 - 3	4+6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	. 4	. 4	. 4	, 9	. 4							2.5	10.5
NNE		, 9	. 4	5.2	• 9							7.4	13.3
NE	.4	2.2	2.2	3.5	2.2							10.4	11.0
ENE		1.3	4.3	3.0	• 9							9.5	10.2
E		1.3	1.7	4.3	1.7	• 9				Ì		0.0	13.5
ESE		3.5	6.5	2.2						Ĺ		12.1	8.6
SE	. 4	3,5	4.8	9.5		• 9						19.0	10.5
SSE	. 4	1.7	2.2	3.5	. 4	- 4						8.7	11.2
\$		. 4	1.3	2.2		.4		. 4				4.3	13.7
SSW		• 9										. 9	5.0
SW	. 4	• 9	.4									1.7	5.3
WSW													
*		. 9										. 9	5.0
WNW		1.3										1.3	6.0
NW		. 9	1.3		, 9							3.0	10.3
MMM		. 9	• 9	2.6	1.7	1.3	4					7.3	15.3
VARBL													
CALM		$\geq <$	$\geq \leq$	$\times$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	2.2	29.8	26.4	36.8	9.1	3.9	. 4	. 4				100.0	11.1

TOTAL NUMBER OF OBSERVATIONS

C

### SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

	_				ALL WE	ATHER			<del></del>				<u>L L</u>
	-				CON	IDITION							
SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥54	*	A S
N	. 4	. 8	. 8	1.4	•8	. 4	•1	<del></del>				4.7	12
NNE	. 3	1.0	1.0	2.8	.8	• 1						5.9	11
NE	. 4	1.3	1.7	2.9	1.2	• 1						7.7	11
ENE	• 2	1.7	3.5	2.7	1.4	• 2						9.7	10
ŧ	• 2	2.6	3.9	3.2	1.6	. 4						11.8	10
ESE	. 2	2.3	3.8	1.4	• 3							8.0	1 8
SE	• 6	2.7	5.3	5.4	1.3	• 3						15.6	10
SSE	. 4	1.3	2.1	3.5	1.0	, 9	• 1	•1				9.4	12
S	• 3	2.0	2.0	1.5	. 4	• 1	.1	1				6.5	5
SSW	• 2	1.1	.7	• 3	• 1							2.4	1
sw	, 3	• 9	. 4		• 1							1.7	
WSW	• 5	1.0	• 3	. 1								1.8	4
w	. 4	1.3	. 4	• 1								2.2	] :
WNW	• 2	1.1	• 5		• 1							2.0	(
NW	. 3	, 7	. 9	. 9	. 7	. 4	•1	1				4.0	12
NNW	• 2	• 5	. 8	2.0	2.1	• 8	• 3					6.7	15
VARRE					1		I						T

### SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

				<del></del>	ALL WE	ATHER LASS	<del></del>	***************************************				0000 HOU	= 02
	-				CON	DITION							
SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 • 47	48 · 55	≥56	*	M W SI
			<u> </u>	<del> </del>	<b> </b>					ļ		-	↓
NNE	. 5	2.4	-	<del>                                     </del>	<del> </del>	<del></del>			<del></del>			2.8	5
NE		1.9	1.9	•5		•5						1.4	8
ENE	. 9	4.2		9.9	1.9				ļ	<del> </del>	<del> </del>	21.2	11
E	•5	4.2	3.3	5.2	1.9	1.4				<del> </del>	<del> </del>	16.5	1 9
ESE	1.9	3.3	6.6	3.8	•5	<del></del>			<del> </del>		<del> </del>	16.0	1 8
SE	1.4	2.4	2.4	3.3	1.4	<del> </del>						10.8	10
SSE	1.9	1.4	1.4	.9	.9	.9			<del></del>	<del> </del>	<del></del>	7.5	1 - 9
S	1.4	.9	1.4	- • 7	•5	• • •				<del> </del>		4.2	1
SSW	2.4	•	1.4	<del></del>	• •	<del></del>				<del> </del>	<del> </del>	3.8	1
SW	• 5	.9	1.9	<b></b>	<del> </del>				<u> </u>	<del> </del>		3.3	1
wsw	.9	<del></del>		<del> </del>	<del>                                     </del>					<del> </del>		.9	
w	1.4		<u> </u>	1.4								2.8	1 7
WNW	1.4	• 5								<del> </del>	i	1.9	3
NW	.5	<del>                                     </del>										• 5	1
NNW		• 5								T		• 5	4
VARBL										1			
CALM	$\boxtimes$	$\boxtimes$	$\geq$	$\geq$	$\geq \leq$	$\geq$	$\geq \leq$	$\boxtimes$	$\boxtimes$	$\geq$	$\geq \leq$		
	16.5	23.1	25.5	25.0	7.1	2.8						100.0	8

### SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

212

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

	-				ALL WE	ATHER						0300	-050
	-				CON	DITION							
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEA WIN
N	1.4	.9	.5	_	<u> </u>							2.8	4.
NNE	.0	1.4	1.9	1.4								5.7	7.
NE	.9	.9	2.8	.9								5.7	7.
ENE	• 5	3.8	6.6	6.6	1.9	1.4						20.8	11.
E	. 9	1.9	7.5	2.8	• 9							14.2	9.
ESE	1.4	. 9	3.3	2.8								8.5	9.
SE	1.4	4.2	4.2	4.7	. 9							15.6	9.
SSE	• 5	. 5	1.4	• 5	1.4							4.2	11.
5	. 9	2.4	1.9									5.2	5
SSW	. 9	. 9	1.4									3.3	5.
SW	.5		.5	. 9								1.9	10
wsw	2.8	. 5										3.3	2.
w	1.4	.5		. 9								2.8	5.
WNW	• 5	1.9	<u> </u>	•5								2.8	5.
NW	L		ļ			L			<u> </u>	L		ļ	<del>  </del>
NNW	2.4	. 5	ļ	• 5								3.3	4.
VARBL	<u></u>	Ļ	Ļ	Ļ	Ļ		Ļ,	<u> </u>	Ļ	Ļ		<b></b>	
CALM		$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	17.5	21.2	32.1	22.6	5.2	1.4						100.0	8.

GLOBAL CLIMATOLOGY BRANCH SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUI OPTICAL SITE HI SOUTH TOWER 78-80 0600-0800 HOURS (L.S.T.) CONDITION SPEED (KNTS) DIR. MEAN WIND SPEED 22 - 27 ≥54 7.2 NNE 7.7 1.9 8.0 2.8 6.6 ENE . 9 3.3 6.6 9.4 1.4 22.2 10.9 E 6.6 9.4 • 5 9.5 • 9 2.4 19.8 1.9 ESE 2.8 3.3 3.8 13.7 9.1 10.0 SE 1.9 1.4 2.4 SSE 9.2 s 5.0 1.9 2.4 2.0 SSW 1.4 4 . C

7.2

4.2

4.4

2.8

4.7

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

• 5

• 5

2.4

1.9

2.4

WSW

WNW

NW NNW VARBL CALM

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

S G G G G	MAUI OPTICAL SITE HI SOUTH TOWER 78-80	YEARS	A U G MONTH
	ALL WEATHER CLASS		0900-1100 HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.0		• 5		• 5							1.9	7.5
NNE	• 5	• 5	2.9	• 5								4.3	7.1
NE	1.0	4.3	2.9	1.0								9.1	6.2
ENE	• 5	2.4	7.7	5.7	1.9		1.0	• 5				19.6	12.0
ŧ	1.0	3.8	4.3	4.3	2.4	• 5						16.3	10.
ESE	• 5	1.4	• 5	1.9	1.0	• 5						5.7	11.
SE	1.0	2.9	_ • 5	2.4	1.4	2.4						10.5	12.
SSE	1.0	1.9	• 5	1.0								4.3	6.
S	• 5	1.4	1.4	1.0	. 5							4.8	8.
SSW	1.9	4.3		• 5								6.7	4.
sw	1.4	1.4		i								2.9	3.
wsw	1.0	1.0	1.0	• 5								3.3	5.
w	1.4	1.0	1.0	• 5								3.8	5.
WNW	2.9	• 5	1.0									4.3	4.
NW	1.0											1.0	3.
WMM		1.4									1	1.4	4.
VARBL													
CALM		$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\supset <$		
	16.3		23.9	19.1	7.7	3.3	1.0	• 5				100.0	8.

TOTAL NUMBER OF OBSERVATIONS 209

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2002	MAUL OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	A U G
STATION	ALL HEA	ATHER	1200-1400 HOURS (L.S.Y.)
			NOONS (E.S.I.)

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	44 - 55	≥54	*	MEAN WIND SPEED
N		1.4	.9									2.4	5.8
NNE		2.8		• 5								3.3	6.1
NE	• 5	2.4	3.8	.9			• 5					8.1	8.9
ENE	1.4	3.3	6.2	3.8	1.9	• 5						17.1	9.9
ŧ	. 9	1.9	4.7	1.9	1,9							11.4	9.9
ESE	• 5		1.4	3.3	.9	• 5						6.6	13.3
SE	• 5	2.8	• 5	. 9	. 9	• 9						6.6	10.5
SSE	1.9	3.3	. 9	, 9		• 5						7.6	7.4
\$	, 9	2.4	2.4	1.9		• 5						8.1	8.6
SSW	. 9	2.4	. 9	. 9								5.2	6.5
SW	1.9	. 9	• 5									3.3	3.7
WSW	1.9	1.4	1.4									4.7	4.7
W	2.4	2.4	. 9	• 5								6.2	4.9
WNW	1.9	1.9	. 9									4.7	4.5
NW	. 5	1.4	. 9	• 5								3.3	5.7
NNW		• 9	• 5									1.4	5.3
VARBL													
CALM		$\supset <$	$\geq <$	$\geq <$	$\geq \leq$	><	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
<u> </u>	16.1	31.8	27.0	16.1	5.7	2.8	• 5					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

211

### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD2	MAUI OPTICAL SITE HI SOUTH TOWER	78-80 YEARS	AUG
		ATHER	1500-1700 HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.0	2.7	1.0									3.9	5.0
NNE		1.0	• 5									1.5	5.3
NE	• 5	2.4	5.4	3.4								11.7	9.2
ENE	1.0	4.4	6.3	2.0		1.0	• 5					15.1	9.8
E	1.0	3.4	3.4	2.0	1.0	1.0						11.7	9.6
ESE	• 5	2.0	2.9	2.9	1.0		. 5	<u> </u>	<u></u>			9.8	11.0
SE	• 5	1.5	2.0	• 5	1.0	1.0						6.3	11.8
SSE		1.0	• 5	2.4		• 5						4.4	12.0
5	• 5	3,4	1.0	.5	1.0	. 5						6.8	8.7
SSW	5.0	3,4	1.5	• 5								7.3	5.9
sw	2.9	2,9		• 5		i		<u></u>				6.3	4.5
wsw	• 5	2.9		• 5	• 5		<u> </u>		<u> </u>			4.4	6.8
w	• 5	2.0	1.0	1.0		<u></u>						4.4	6.8
WNW	1.0	2.9				<u> </u>	<u> </u>			<u> </u>		3.9	4.5
NW	• 5	1.0										1.5	4.3
MMM	1.0											1.0	3.0
VARBL			L								<u></u>		ļ
CALM		$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\bowtie$	$\geq \leq$	$\geq \leq$	$\times$	$\geq \leq$	$\geq \leq$		
	13.2	36.1	25.4	16.1	4.4	3.9	1.0					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 205

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SCOOD	MAUI OPTICAL SITE HI SOUTH TOWER	78-80	AUG Month
		THER	1830-2000 HOURS (L.R.T.)
	CONT	PITION	

SPEED (KNTS) DIR.	1.3	4 · 4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		_ ,5	1.0									1.4	7.3
NNE	1.9	1.9	1.9	, 5								6.3	5.6
NE	• 5	1.0	6.3	1.4	• 5							9.7	9.1
ENE	1.0	3.9	8.2	7.2	1.4	• 5	1.0					23.2	11.1
E	1.0	1.9	4.3	3.4	1.0							11.6	9.5
ESE	. 5	2.4	2.9	3.4	• 5	• 5						10.1	10.4
SE	1.0	2.4	3.4	1.4	1.4	1.0			I			10.5	11.1
SSE	1.0	• 5	1.9	1.4					1	i		4.8	8.3
\$	1.4	.5	1.4	.5	• 5	1.0						5.3	10.1
WZZ	• 5	1.9	1	1	• 5					<del></del>		2.9	6.2
SW	2.4	1.9	1.0	• 5			<u> </u>				·	5.8	4.8
wsw	1.0	1	1.0							<u> </u>		1.9	4.5
w	2.4		1.0	.5						<del></del>		3.9	4.5
WNW	.5	<del> </del>		1								.5	2.0
NW	.5	1.7		i — —		<b> </b>						1.4	4.0
NNW		• 5	i				<del></del>	<b></b>	<del></del>		<del>                                     </del>	• 5	5.0
VARBL		<u> </u>	<del> </del>		<b> </b>	<del> </del>	<del>                                     </del>	l	<del> </del>	<del>                                     </del>	<del> </del>		
CALM	$\sim$	$\searrow$	$\overline{}$	>		$\sim$	> <	$\overline{}$	$\overline{}$	$\overline{}$			
		20.3		20.3	5.8	2.9	1.0					100.0	9.0

TOTAL NUMBER OF JASSERVATIONS 207

## SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-80

	*14110	~ ~~~~					•	EARD				HONTH
				ALL WE							2130	-2300
				CI	LASS						HOU	R8 (L.8.Y.)
				CON	DITION							
		<del></del>	<del></del>									
SPEED (KNTS) 1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 · 27	26 - 33	34 - 40	41 - 47	40 - 55	≥\$6	*	MEAN WIND SPEED
	<del> </del>		<del> </del>									
N 1.9		.5	<del>                                     </del>	<del> </del>	<del></del>	<del> </del>	<del> </del>		<del> </del>		4 . B	4.2
	- 5	1.4	.5				<del> </del>				2.4	8.4
NE .5		1.4	, 5	1.4			<del></del>				5.8	9.2
	4.3	7.2	10.1	1.4	1.4	•5	<del> </del>	ļ			25.1	11.9
E .5		3.9	6.3		<del>                                     </del>	<del> </del>					14.0	9.1
<del> </del>	1.4	3.4	4.8	2.4	• 5		<del> </del>	<del> </del>			12.5	12.5
	1.4	3.4	1.4	1.9	1.0	<del> </del>	<del> </del>		<del> </del>		10.1	11.7
SSE 1.0	1.0	1.4	2.9	1.0	,5	<del> </del>					8.2	8.8
ssw 1.3	1.4	5	<del> </del>	1.0	<del> </del>	<del> </del>		<del> </del>	<del> </del>		2.9	4.3
sw 1.4	1.4	1.0	<del> </del>		<del> </del>	<b></b>	<del></del>		<del> </del>		3.9	4.6
wsw .5	<del>-   ••</del>		<del> </del>	<del> </del>	<del> </del>						• 5	1.0
W	• 5	• 5	1.4	<del> </del>	<del> </del>	<del> </del>			<del></del>		2.4	10.4
WWW 1.0	<del></del>	• • •	<del>                                     </del>	<del> </del>	<del></del>						1.0	2.0
NW 1.0	<del>                                     </del>	<b></b>	-		<del> </del>	<del> </del>	<del> </del> -				1.0	2.5
NAW .5	<del></del>	<del> </del>	<del> </del>		<del>                                     </del>	<u> </u>					.5	3.0
VARBL	<del></del>	<del> </del>	<del> </del>		<del>                                     </del>		<del></del>		<b> </b>		<del>                                     </del>	1 3.5
CALM	1	>>	$\supset$	$\supset$	>	$\times$	>>	>>		$\overline{}$		<b>†</b>
12.6	22.2	26.6	28 a D	8.7	3.4	-5	()			حـــک	100.0	9.9

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DODD2	MAUI OPIICAL SITE HI SOUTH TOWER	78-30 YEARS	AUG MONTH
		ATHER	ALL HOURS (L.S.Y.)
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
7	. 7	1.4	• 5	• 1	. 1							2.9	5.5
NNE	,4	1.3	1.3	. 4	• 1							3.5	6.8
NE	. 7	2.3	3.3	1.2	• 2	• 1	1		_			7.9	8.3
ENE	• 7	3.7	6.5	6.9	1.5	. 8	. 4	• 1				20.5	11.1
2	. 9	2.9	5.3	4.1	1.2	•2						14.4	9.6
ESE	1.0	1.9	2.9	3.3	1.0	• 2	•1					10.4	10.4
SE	1.0	2.5	2.1	2.0	1.4	• B						9.9	10.8
SSE	1.0	1.3	1.1	1.4	.4	• 3						5.5	9.4
S	1.0	1.6	1.4	.5	. 4	, 2						5.2	8.0
SSW	1.5	1.3	• 7	• 2	• 1							4.3	5.1
SW	1.5	1.4	.6	•2								3.8	5.0
wsw	1.4	.7	• 5	• 3	• 1							2.9	5.2
w	1.4	. 8	.6	.8			1					3.6	5.9
WNW	1.4	1.2	• 2	•1								3.0	4.2
NW	. 5	. 4	.1	•1								1.1	4.6
NNW	• 5	• 5	1	•1								1.1	4.4
VARBL											·		
CALM	$\geq$	$\ge$	$\geq$	$\boxtimes$	$\geq$	$\geq \leq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq \leq$		
	15.8	25.7	I	21.7	6.4	2.7	• 5	•1				100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 1675

### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 <u>0002</u>	MAUI OPTICAL	SITE HI	SOUTH TOWER	78-79	YEARS	SEP
•••••			ALL	WEATHER CLASS		0000-0200 HOURS (L.S.T.)
				CONDITION		

SPEED (KNTS) DIR.	1.3	4 • 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	• 5	• 6										1.2	3.5
NNE		• 6	3.0	1.8	.6			<u> </u>				6.0	11.0
NE	, 6	.6	3.0	6.6	5.4	• 6						16.9	13.9
ENE	• 5	3.0	6.6	13.9	10.2	2.4						36.7	14.1
ŧ		, 6	4.2	8.4	6.6	,6						20.5	14.1
ESE			3.0	3.0	• 6							5.6	11.6
SE	• 5	• 6	1.2	1.2	• 6	• 6			l			4.8	11.8
SSE													
\$	• 6	• 6										1.2	4.5
SSW		• 6	1.2									1.8	6.7
SW	• 5											6	1.0
WSW	• 6		• 5									1.2	4.5
w													
WNW	. 6											• 6	3.0
NW		.6										• 6	5.0
NNW	1.2											1.2	2.0
VARBL													
CALM	$\supset \subset$	$\times$	$\supset \subset$	$\supset \subset$		$\triangleright <$	$\boxtimes$	$\supset \subset$	$\supset \subset$				
	6.0	7.8	I	34.9	24.1	4.2						100.0	12.8

TOTAL NUMBER OF OBSERVATIONS 166

2

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OCOOC NOIVATE	MAUI OPTICAL SITE HI SOUTH TOWER	78-79 VKARS	SEP
		ATHER	0300-0500 Hours (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥54	*	MEAN WIND SPEED
7			1.2	. 6								1.8	8.7
NNE		1.8	2.4	.6	1.2							6.0	10.5
NE		. 6	4.2	7.1	4.8	. 5						17.3	13.4
ENE		4.8	9.5	10.7	8.9							33.9	12.3
Ę		1.2	7.1	10.1	3,6							22.0	12.0
ESE	. 6	1.8	1.8	3.0	• 6							7.7	9.8
\$E		• 6		2.4								3.0	11.6
332		.6	1.2									1.8	6.3
5		• 6										• 6	6.0
SSW	. 6	• 6										1.2	3.0
sw		1.2										1.2	4.5
WSW	• 5											.6	1.0
w		1.2										1.2	5.0
WNW			• 5									.6	10.0
NW		3 .6	• 6									1.2	6.D
NNW													
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\ge$	$\times$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq$		
	1.8	15.5	28.6	34.5	19.0	. 6						120.0	11.4

TOTAL NUMBER OF OBSERVATIONS 168

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00302	MAUL OPTICAL SITE HE SOUTH TOWER	78.79	۹3،
STATION	STATION NAME	YEARS	MONTH
	ALL WE	ATHER	0620-0800
	CL	.400	HOURS (L.S.T.)
	CON	RIVION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	.6	• 6	1.2									2.4	5.8
HHE	• 6	1,2	3,6	3.6		6_		1				9.5	10.4
NE		2.4	4.2	5.4	4.8	1.2						18.1	13.1
ENE		1.8	10.2	15.1	8 • 4	1.2						36.7	13.1
ŧ		1.2	3.0	7.8	3.6	1.8	Ĺ`	i	]			17.5	113.8
ESE			2.4	1 - 8	1.2							5.4	12.1
58	. 5	1.8	1.2	1.2			L				L	4.8	7.6
388	• 5	•6										1.2	3.5
\$												L	
SSW	. 6										L	• 5	2.5
sw									L		L	]	
wsw	. 5						<u> </u>					<u> </u>	3.7
w	- 6					<u> </u>					ļ <u> </u>	1.	3.5
WNW	1.2	. 6										1.8	3.3
NW						L	<u></u>						
NNW		. 6			<u> </u>				1			.6	5.0
VARBL													
CALM	$\geq \leq$	$\times$	$\boxtimes$	$\geq \leq$	$\boxtimes$	$\geq \leq$	$\boxtimes$	$\geq \leq$	$\triangleright <$	$\geq \leq$	$\geq \leq$		
	5.4	10.8		34.9	18.1	4 . 8						100.0	12.0

TOTAL NUMBER OF OBSERVATIONS 166

### SURFACE WINDS

0900-1100

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

MAUT OPTICA SITE HI SOUTH TOWER 78-79

	_				CON	DITION				-			
	-							<del></del>					
SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥\$6	*	
N		1.8										1.8	1
NNE	• 6	.6	1.8	4.2	1.8	1.2						10.2	1
NE		1.2	3.0	7.8	2.4	1.2						15.6	1
ENE		1.8	9.0	12.6	5 . 4	2.4	6					31.7	1
ŧ	• 6	1.2	2.4	6.0	4.2	1.8						16.2	1
ESE		. 6	3.0	1.8	1.8							7.2	$\prod$
SE	• 5	• 6	1.8	• 6								3.6	$\Box$
SSE	• 6	1.2										1.8	$\prod$
S	1.2	1.8										3.0	$\Gamma$
SSW	• 6											. 6	
sw		.6										• 5	
WSW	. 6			L								. 6	L
w	1.2	• 6										1.3	
WNW	.6	1.8	<u> </u>									2.4	<u> </u>
NW	1.2	1.8				<u> </u>			L			3.0	L
NNW		<u> </u>		<u> </u>						<u> </u>			
VARBL													L
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	7.8	15.6	21.0	32.9	15.6	6.6	6					100.0	ı

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0002	MAUI OPTICAL SITE HI SOUTH TON	IER 78-79	SEP
STATION	STATION NAME	YKA	MS MONTH
	A!	L WEATHER	1200-1400
		CLASS	HOURS (L.S.T.)

SPEED (KNTS) DIR,	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	. 6	1.2	1.8		• 6							4.3	8.1
NNE	• 6	1.2	2.4	4.9	1.2	• 6						11.0	11.1
NE SH		2.4	9.1	3.7	3.0	• 5						18.9	10.9
ENE		1.8	7.9	12.8	4.3	1.8			]			78.7	13.1
ŧ		1.2	4.3	4.9	2.4							12.8	12.2
ESE			1.8	3.0								4.9	10.6
SE	• 6	, 6	2.4	1.2								4.9	7.8
\$5E		• 6	1.2									1.8	7.3
\$		1.8										1.8	5.0
35W													
SW		. 6										• 6	4.0
WSW	1.2	.6								i		1.8	3,3
W	1.5	• 6										2.4	3.3
WNW	1.2	• 6	.6									2.4	4.5
NW		1.2	1.2									2.4	6.3
NNW	• 6	.6										1.2	4.0
VARBL													
CALM	$\geq \leq$	$\geq$	$\times$	$\geq$	$\times$	$\geq \leq$	$\times$	$\times$	$\geq$	$\geq$	X		
	6.7	15.2	32.9	30.5	11.6	3.0						100.0	10.6

TOTAL NUMBER OF OBSERVATIONS 164

															نطالب. سا
1 c 2 6	GLOBAL C USAFETAC AIR WEAT				f	DII	RECTION	QUENCY AND SI	PEED			SUR	FACE	WI	NDS
લ	00002	MAUI	OPTICA	L SITZ	HI S	•									EP
	STATION			SYA'/10	HNAME					Y	EARS			N	ONTH
<b>(</b> )							ALL WE	ATHER						1500	-1700
••			_				Ċ	LASS						HOUP	IS (L.S.T.)
			_												
$oldsymbol{\epsilon}$							CON	DITION							
			_												
<b>(</b> +															
		SPEED													MEAN
		(KNTS)	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	WIND
(		DIR.	<u> </u>												SPEED
		N	<u> </u>	3.0	3.6	• 6		<u> </u>						7.2	7.7
		NNE		3.0	3.6	6.0	3.6		<u> </u>				<u> </u>	16.3	12.1
(		NE		.6	4.8	9.0	2.4	1.2	<u> </u>					18.1	13.3
		ENE	.6	1.2	9.6	14.5	2.4	• 6	• 6		<u> </u>			29.5	12.1
		E		1.8	2.4	3.6	2.4	1.2						11.4	13.5
1		ESE	. 6	.6	1.8	1.8	<u> </u>						ll	4.8	8.8
		SE	.6	<u> </u>	1.2									1.8	6.0
		SSE		1.8	.6									2.4	5.8
ŧ		\$	1.8			<u> </u>		<u> </u>				<u> </u>		1.3	2.3
		SSW	.5			<u> </u>		<u> </u>						6	3.0
		\$W	ļ		•6										7.0
•		WSW	<u> </u>	<u> </u>	.6	<u> </u>	<u> </u>	<u> </u>					<b></b>	• 5	7.0
		W	5	. 6	ļ		ļ	<u> </u>		L	<b> </b>			1.2	4.0
		WNW	1.2	.6	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>			1.8	3.0
(		NW	ļ	.6	ļ	ļ	<u> </u>	ļ <u>.</u>						• 5	5.0
		NNW	.6	<u> </u>	L	•6	ļ			<u> </u>	ļ			1.2	7.0
4:		VARBL	<u></u>	Ļ	L	Ļ	L	L	Ļ.,	Ļ	Ļ	Ļ			
C		CALM		><	><	><	><	> <	><	><	I><	><	><		
				<del> </del>	<del> </del>	<u> </u>						<del></del>		-	
		ı	11 6.6	13.9	123.9	36.1	110.8	1 3.0	. 6	1	I	1	1 8)	00.0	111.1

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00032	MAUL OPTICAL SITE HE SOUTH TOWER	78-79	SEP
STATION	STATION NAME	YEARS	MONTH
	ALL WE	ATHER	1800-2000
	C	LASS	HOURS (L.S.T.)
	GON	DITION	

SPEED (KNTS) DIR.	1 - 3	4 • 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N		1.2	2.4	1.8								5.4	9.3
NNE		• 6	1.8	7.8	3.0							13.3	13.3
NE		1.2	4.2	9.0	6.0	3.0						23.5	14.8
ENE	• 6	• 6	5.4	16.9	6.6	3.6					_	33.7	14.9
ŧ,		• 6	1.8	2.4	3.6							8.4	13.4
ESE		• 6	. 5	4.2	• 6							6.3	12.2
SE			• 6									. 6	7.0
SSE	1.2	• 6	.6									2.4	5.0
S		2.4										2,4	5.3
SSW													
sw													-
WSW		. 6										• 5	4.0
W								I					
WNW	. 6		6									1.2	5.0
NW	• 5		.6									1.2	4.0
NNW			1.2									1.2	7.5
VARBL													
CALM	$\geq \leq$	$\geq$	$\boxtimes$	$\geq$	$\geq$	$\geq \leq$	$\geq$	$\triangleright <$	$\boxtimes$	$\supset <$	$\geq \leq$		
	3.0		19.9	42.2	19.9	6.5						100.0	13.2

TOTAL NUMBER OF OBSERVATIONS

166

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	\$£°P MONTH	
	ALL WEA	2100-2300 Hours (L.S.Y.)		
	CONDI	TION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	.6											.6	3.0
NNE		. 6	3.6	4,8	1.2	.6						10.8	13.0
NE	• 6	2.4	2.4	9.0	6.0	1.2						21.7	13.4
ENE	1.2	.6	6.6	15.1	12.0	3.0	.6					39.2	14.7
E	.6	1.8	.6	3.6	6.0	2.4						15.1	15.7
ESE			2.4	1.2							!	3.5	10.5
SE	1.2		.6	1.2	L	ļ					<u> </u>	3.0	8.4
SSE	6		<b></b>							<u> </u>		_ 6	3.0
<u> </u>	.6				ļ	ļ					i	• 5	3.0
SSW		1.2	• 6		ļ		ļ	 				1.8	6.3
SW				ļ		ļ		ļ					
WSW				ļ	<del> </del> -							<b></b>	ļ
w		-6	ļ. <b></b>	ļ				ļ	 			. 5	4.0
WNW		ļ					<b> </b>	ļ	<u> </u>			ļ	
NW		ļ	1.2		<u> </u>		<b> </b>		ļ	<u> </u>		1.2	7.5
NNW	• 6	• 6					<b> </b>			ļ		1.2	4.5
VARBL				<del></del>	<u></u>	<b>_</b>		<b>_</b>	<b>_</b>	<b>_</b>		<b></b>	
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	6.0	7.8	18.1	34.9	25.3	7.2	.6					100.0	13.4

TOTAL NUMBER OF OBSERVATIONS 166

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	SEP				
STATION	STATION GAME	YEARS	MONTH				
	ALL WE	ATHER	ALL				
	CLASS						
			HOURS (L.S.T.)				
	COI	NDITION					

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	49 - 55	≥54	*	MEAN WIND SPEED
7	• 3	1.1	1.3	. 4	_ • 1							3.1	7.5
NNE	2	1.2	2.8	4.2	1.6	. 4						10.4	12.0
NE	• 2	1.4	4.4	7.2	4.4	1.2						18.7	13.3
ENE	. 4	2.0	8.1	13.9	7.3	1.9	• 2					33.8	13.5
ŧ	• 2	1.2	3.2	5.9	4.1	1.0						15.5	13.6
ESE	• 2	• 5	2.1	2.5	. 6							5.8	10.9
SE	_ • 5	• 5	1.1	1.0	• 1	• 1						3.3	8.6
SSE	. 4	. 7	• 5									1.5	5.4
S	• 5	• 9										1.4	4.
SSW	. 3	• 3	• 2						L			.8	4.
sw	1	• 3	• 1									• 5	4 .
wsw	5	• 2	• 2		I							. 3	3.
w_	•5	• 5										1.0	3.
WNW	. 7	. 5	• 2									1.4	4 .
NW	• 2	• 5	• 5								[	1.3	5 .
NNW	_,4	• 2	• 2	• 1								• 8	5.
VARBL							1						
CALM		$\boxtimes$	$\geq <$	$\supset <$		$\supset <$	$\times$	$\boxtimes$	$\boxtimes$	$\boxtimes$			
	5.4		24.8	35.1	18.1	4.5	• 2					100.0	12.

TOTAL NUMBER OF OBSERVATIONS 1329

GLOBAL CLIMATOLOGY BRANCH `2 SURFACE WINDS USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) MAUI OPTICAL SITE HI SOUTH YOMER 78-79 YEARS 0000-0200 HOURS (L.S.Y.) 1 CONDITION SPEED MEAN WIND SPEED (KNTS) DIR. 1 - 3 7 - 10 11 - 16 17 - 21 N 8.4 HNE 1.7 1.1 NE ENE 1.7 5.6 3.9 2.2 13.9 • 6 11.0 ŧ 1.1 6.1 2.8 15.5 ESE 2.8 • 6 SE 4.4 8 . 4 SSE 5 1.7 • 6 3.9 SSW 2.2 . 6 5.0 SW 8.3 WSW , 6 WNW 1.7 • 6 1.1 NW 1.7 1.7 3.9 5.9 NNW 7.0 VARBL CALM

100.0

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DOD2 STATION	MAUI OPTICAL SITE HI SOUTH TOWER	78-79 YKARS	OCT MONTH
		ATHER LASS	0300-0500 HOURE (L.S.T.)
	CON	NDITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	%	MEAN WIND SPEED	
N		2.2	1.1	1.1								4.5	8.4	11
NNE	• 6	1.1	3.4	1.1		• 6						6.7	8.8	]
NE			5.1	2.2	1.1	• 6						9.0	12.4	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
ENE		2.2	5.6	14.0	• 6	1.7						24.2	12.2	1
E		1.1	1.7	1.1	2.2	2.2	.6					9.0	16.8	11
ESE			1.1		1.1	1.1	• 6					3.9	18.7	11
SE		• 6	• 6	• 6								1.7	8.7	7!
SSE	• 5	1.1	• 6	1.7								3.9	7.4	11
S		2.8	. 6	3.4								6.7	8.8	]
SSW	1.1	1.7	4.5	1.7								9.3	8.0	]
sw		2.2	2.8	1.7								6.7	8.3	11
WSW		1.1	1.7									2.3	7.4	]
w	.6	1.1	.6									2.2	5.0	]
WNW		.6	.6								i	1.1	7.0	1
NW	.6			.6								1.1	6.0	11
NNW		1.7	3.4	1.7	• 6							7.3	9.0	۱.
VARBL														]
CALM	$\geq \leq$	$\geq$	$\boxtimes$	$\geq \leq$	$\geq$	$\geq$	$\boxtimes$	$\geq \leq$	$\geq$	$\geq$	$\geq$			
	3.4	19.7	33.1	30.9	5.6	6.2	1.1					100.0	10.7	

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLTMATOLOGY BRANCH USAFETAC

AIR WEATHER SERVICE/MAC

1

0

#### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ORDOZ MAUI OPTICAL SITE HI SOUTH TOWER 78-79

STATION STATION NAME

ALL WEATHER

CONDITION

CONDITION

OCT

MONTH

MONTH

1. DET

CONDITION

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 • 21	22 . 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAI WINI SPEEI
N	• 6	1.1	1.1	.6								3.4	7.
NNE		1.7	2.3	1.7	2.8							8.5	12.
NE	• 6	1.1	2.8	3.4	• 6	• 6						9.0	11.
ENE		2.3	3.4	9.6	1.1							16.4	11.
E			2.8	3.4	2.8	1.1	• 6	• 5				11.3	15.
ESE		• 6	2.3	2.8	•6	1.1	• 6					7.9	14.
SE	1.1	• 6	1.7	• 6								4.0	6.
SSE	, 6	1.7	1.7	.6								4.5	6.
\$		1.1	2.3	2.3								3.6	9.
SSW	1.1	. 6	3.4	3.4	• 5							9.0	9.
sw	• 5	1.7	2.8	1.7								6.8	8.
WSW		1.1	6	. 6		i						2.3	7.
w	1.1	1.1										2,3	4.
WNW	1.7	. 6										2.3	3.
NW	1.1	. 6	• 6	1.1								3.4	6,
NNW	. 6		1.1	1.7								3.4	9.
VARBL													
CALM	$\geq \leq$	><		$\geq \leq$	><	$\geq \leq$	$\times$	$\times$	><	><	><		
	9.0	15.8	28.8	33.3	8.5	2.8	1.1	. 6				100.0	10.

TOTAL NUMBER OF OBSERVATIONS 177

#### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 • 47	48 - 55	≥54	*	MEAN WIND SPEED
N	• 5	1.1	1.1	1.1	• 5							4.4	9.1
NNE		3.2	1.1	4.9	1.1							9.3	11.5
NL		1.6	4.9	2.2	1.1	l						9.9	10.1
ENE		3.8	2.7	4.9	• 5	• 5						12.6	10.2
E		1.6	2.2	1.1	1.6	2.2	2.2					11.0	17.9
ESE		• 5	2.2	2.2		1.1						6.0	12.5
SE	• 5	2.2	1.6	. 5								4.9	6.4
SSE		3.3	1.1	1.1	• 5	<u> </u>						6.0	7.9
S	. 5	2.7	3.3	• 5	1.1							8.2	8.8
ssw	1.1	2.7	4.4	2.2								10.4	7.9
sw	1.1	. 5	2.2	1.1		<u> </u>						4,9	7.4
wsw	• 5	1.1	1.6					<u> </u>				3.3	6.2
w	1.1	1.1	.5	. 5								3.3	5 . 8
WNW		1.6										1.6	5.3
NW		2.2		<u> </u>								2.2	5.3
NNW		1.1	• 5	<u> </u>		<u> </u>			<u> </u>		l	1.6	6.0
VARBL									Ţ				
CALM	$\geq \leq$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	5.5	29.7	29.7	22.5	6.6	3.8	2.2					100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

122

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ODDO MAUI OPTICAL SITE HI SOUTH TOWER 78-79 STATION NAME YEARS	OC_			
ALL WEATHER CLASS		-1400		
CONDITION				
SPEED (KNTS) DIR. 1 - 3 4 - 6 7 - 10 11 - 16 17 - 21 22 - 27 28 - 33 34 - 40 41 - 47 48 - 55 ≥ 56	*	MEAN WIND SPEED		
N 1.6 3.3 .5	5.4	7.5		
NNE .5 3.8 2.2 2.7 .5	9.8	8.3		

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥36	*	MEAN WIND SPEED
N		1.6	3.3	• 5								5.4	7.5
NNE	• 5	3.8	2.2	2.7	• 5							9.8	8.3
NE	• 5	1.1	1.6	1.6	1.1	1						6.0	10.3
ENE		1.1	3.3	4.9		• 5	T					9.8	11.4
ŧ	• 5	1.1	2.7	2.7	1.1	3.3						11.4	14.2
ESE		• 5	• 5	• 5	1.1	• 5	• 5					3.8	17.6
SE	1.1	• 5	1.6		• 5							3.8	7.4
SSE		• 5	2.2	• 5								3.3	9.2
\$	2.2	4.3	3,3	1.6			1		T	1		11.4	6.7
SSW	1.1	2.7	3.8	2.2			<u> </u>					9 • B	8.4
SW	3.3	1.6	2,7	1.1								8.7	6.1
WSW	1.1	1.1	1.6	• 5								4.3	6.6
w	1.5	1.6	_ ,5									3.8	4.7
WNW		1.1	• 5									1.6	6.3
NW	1.6	1.6	• 5	• 5				i –				4.3	5.3
NNW	• 5	1.6	• 5				i					2.7	5.2
VARBL			1				r	Ι					
CALM			$\supset \subset$	$\sim$	$\supset$	> <	> <	$\supset <$	$\supset <$	$\supset <$	> <		
	14.1	26.1	31.0	19.6	4.3	4.3	. 5					100.0	8.9

OTAL NUMBER	OF OBSERVATIONS	184

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

20002 NOITATE	MAU1 OPTICAL SITE HI SOUTH TOWER	78-79	OCT MONTH					
	ALL WEATHER							
	COI	NOITION						

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	24 - 40	41 - 47	49 - 55	≥56	*	MEAN WIND SPEED
N		2.2	2.7	1.1								6.0	8.3
NNE	1.1	2.2	2.2	2.2	2.2							9.3	10.4
NE	1.6	1.6	1.6	5.4	• 5				<u> </u>			10.9	9.7
ENE		3.3	4.3	2.2	• 5							10.3	9.2
ŧ	• 5	1.1	2.2	3.8	2.2	2.7	1.1					13.6	15.8
ESE	. 5	1.6			• 5		• 5					3.3	11.5
SE	. 5	2.2	1.6	, 5								4.9	6.3
SSE	.5	2.7	1.6	• 5								5,1	6.4
\$	. 5	2.2	1.6									4.3	6.0
SSW	2.2	1.1	3.8	3.3								10.3	8.4
sw	_ • 5	2.2	. 5	2.2								5,4	7.8
W\$W	1,5	1.6	1.1									4.3	4.5
w	.5	2.2	1.1									3.8	5.9
WNW		2.7	1.1				L					3.8	5.3
NW	, 5	1.6										2.2	4.3
NKW	1.1		• 5									1.5	5.3
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\times$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	12.0	30.4	I	21.2	6.0	2.7	1.6					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS

C

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDD02	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	OCT MONTH				
	ALL WEATHER GLASS						
	CONC	DITION					

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	. 5	1.6	1.6	. 5	• 5							4.9	8.9
NNE			.5	4.9	• 5							6.0	13.5
NE		. 5	2.7	4.9	_1.1							9.3	12.1
ENE	• 5	1.1	3.3	6.6	4.9							16.5	13.1
ŧ	_ 5	2.2	1.1	3.8	2.2	2.2	1.6	1.1				14.8	17.1
ESE	1.6		5	2.7	1.1	, 5						6.6	11.9
SE	• 5		1.1		5							2.2	9.3
SSE	• 5		• 5									1.1	5.0
S	1.5	2.2	2.2	• 5								6.6	5 . 8
SSW	• 5	2.7	1.6	1.6								6.6	7.2
\$W	1.6	3.8	1.6	1.1			,					8.2	6.4
WSW		1.6		1.1								2.7	8.6
W	2.7	1.1				]						3.8	3.1
WNW	2.7	<b> </b>										2.7	2.4
NW	• 5	• 5	2.2									3.3	6.D
NNW		1.1	2.7	• 5								4.4	8.1
VARBL													
CALM		$\geq \leq$	$\geq <$	$\geq \leq$	$\geq \leq$	$\times$	$\times$	><	><	><	><		
	14.3	18.7	22.0	28.6	11.0	2.7	1.6	1.1				100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 182

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

J2002	MAUL OPTICAL SITE HE SOUTH TOWER	78-79	001				
STATION	STATION NAME	YKARS	MONTH				
	ALL WEA	2130-2300					
	CLASS						
		PITION					

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	26 - 33	34 - 40	41 - 47	48 - 55	¥\$	*	MEAN WIND SPEED
N		1.7	5.0	1.1								7.7	8.1
NNE			4.4	2.2								5.5	10.1
NE	• 5		3.3	2.2	1.7							7.7	11.6
ENE		1.1	5.0	6.6	3.3	.6						15.5	12.6
E	1.7	.6	1.1	6.1	3.3	4.4	.6	• 5				18.2	16.4
ESE			.6	3.9	•6		1.1					6.1	17.8
SE		1.1	2.2	.6								3.9	7.3
SSE	1.1	1.1	1.7	• 6								4.4	6.8
S		7.3	2.8	.6								6.6	7.4
ssw	2.8		2.8	.6								6.1	6.1
SW	1.1	3.3	1.1	1.1								6.5	5.1
WSW	• 5	. 6	1.7	1.1								3.9	8.3
w		. 5										. 6	4.0
WNW	1.1	1.1	.6									2.8	4 . 8
ММ			.6									. 6	7.5
NNW		• 6	• 6	.6								1.7	8.0
VARBL													
CALM	$\times$	$\times$	> <	$\ge$	> <	$\boxtimes$	$\geq$	$\leq$	$\geq$	>	><		
		I	33.1	27.1	3 . 8	5.0	1.7	. 6				100.0	10.8

TOTAL NUMBER OF OBSERVATIONS

USAFETAC  $_{\rm AM,~64}^{\rm FORM}$  0-8-5 (OL-A) previous editions of this form are obsolete

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	OCT MONTH				
	ALL WEATHER CLASS						
	CON	DITION					

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 4)	41 - 47	48 - 55	≥\$4	*	MEAN WIND SPEED
N	. 2	1.7	2.2	1.0	• 1							5.2	8.3
NNE	.3	1.7	2.2	2.6	. 9	• 1						7.8	10.4
NE	. 4	. 3	3.0	3.1	1.0	• 2						8.5	11.2
ENE	• 1	2.1	4.1	6.6	1.7	. 4						15.0	11.5
ž.	<b>,</b> 4	1.1	2.2	3.5	2.2	2.6	1.0	• 3				13.3	16.2
ESE	• 3	• 5	1.0	i.9	, A	• 7	• 5					5.5	14.8
SE	• 5	1.7	1.7	. 4	• 1							3.7	7.3
358	• 5	1.6	1.5	,7	.1						I	4.3	7.1
S	. 7	2.6	2.5	1.2	-1							7.0	7.5
35W	1.2	1.9	3.3	1.9	• 1							8.5	7.9
SW	1.1	2.1	2.3	1.4								7.3	7.3
wsw	. 6	1.0	1.1	. 4								3.1	6.7
w	1.3	1.1	. 3	- 1								2.5	4.8
WNW	. 8	1.2	• 5									2.4	4.8
NW	.6	1.0	.7_	• 3							i	2.6	5.7
NNW	• 3	1.0	1.3	6	• 1							3.3	7.8
VARBL										}			
CALM	$\geq \leq$	$\times$	$\geq$	$\geq <$	$\geq$	$\geq \leq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq \leq$		
	8.9	22.5	30.0	25.6	7.2	4.0	1.5	.3				190.9	10.1

TOTAL NUMBER OF OBSERVATIONS

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### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SCOO	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	V O V					
	ALL WEATHER  GLASS							
	CONI	DITION						

		,						~					_
SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 · 47	48 · 55	≥56	*	MEAN WIND SPEED
N	1.8	2.4	3.0									7.2	6.5
NHE	2,4	1,8	1.2	. 6								6.0	5.0
NE	1.2	1.2	1.2	3.6	1.8							9.0	10.8
ENE		1.2	1.8	3.0	1.2	1.2		Ī	Ī			8.4	13.1
E		1.8	3.5	7.2	3.0	1.8						16.9	13.8
ESE		1.2	2.4	3.0	1.8	1.2			ſ			9.5	13.3
SE	.6	.6		1,2								2.4	6.5
SSE	1.2	.6										1.8	2.
\$			• 6	• 6								1.2	10.5
SSW		1.8	• 6	.6	1.8	1.2	. 6					6.6	16.5
sw		1.2	3.6	1.2	.6							6.5	9.
WSW		1.2	1.2	1.2	1.2	. 6	• 6					6.0	14.
w		• 6	1.2	3.0	1.2							6.0	12.
WNW	1.2	2.4	.6		.6							4.8	5.
NW	. 6	3.6										4.2	4.
NNW	1.3	1.2										3,3	3.0
VARBL								}					
CALM	$\times$	$\boxtimes$	$\boxtimes$	$\geq \leq$	$\times$	$\geq$	$\times$	$\geq \leq$	$\boxtimes$	$\geq$	><		
	10.8	22.9	1	25.3	13.3	5.0	1.2					100.3	10.

TOTAL NUMBER OF OBSERVATIONS

166

11

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

02022	MAUL OPTICAL SITE HI SOUTH TOWER	78-79	NOV MONTH					
SYATION	STATION NAME	YEARS	MONTH					
	ALL NEA	THER	0300-0500					
		CLAS5						
	CONE	ITION						

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥54	*	MEAN WIND SPEED
N	. 5		• 6	2.4								3.6	11.5
NNE	.6	1.8	3.0									5.5	6.5
NE	.6	• 6	1.8	3.0		• 6						6.7	11.5
ENE		• 6	5.5	3.0	2.4	• 5		<u> </u>				12.1	12.6
E	• 6	1.2	4.2	5.5	2.4						<u> </u>	13.9	11.4
ESE	1.8	1.2	3.0	4.2	• 6	1.2	L					12.1	11.
SE		• 6	• 6	2.4		• 6						4.2	11.9
SSE	• 6		. 6			1.2				<u> </u>		2.4	14.1
S						1.2		1				1.2	26.
SSW			2.4	1.8			1.2					5.5	14.
SW	1.2		2.4	1.8	• 6				ļ			6.1	10.
WSW	.6	• 6		1.2	•6	<u></u>						3.0	10.
W	1.8	• 6	5.5	3.6							<u> </u>	11.5	8.
WNW	- 5	2.4	2.4	1.2		• 5	<u> </u>	<u> </u>				7.3	9.
NW		. 6	.6	1.2								2.4	9.
NNW		1.2	• 6	.6				<u> </u>				2.4	7.
VARBL				<u></u>	L		Ĺ	<u></u>	Ļ	ļ	<u></u>		<u> </u>
CALM		><		><		><	><		><	><	><		<u></u>
		11.5	I	22.1	6.7	6.1	1.2					100.0	11.

OTAL	NUMBER OF	OBSERVATIONS	10	65

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CUAM SOCO	OPTICAL SITE HI SOUTH TOWE		YKARS MON
	ALL	WEATHER	0630-0
		CLASS	HOURS
		CONDITION	

SPEED (KNTS)	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND
DIR.									<u></u>				SPEED
N	1.2	1.2	1.2	1.2		. 6						5.5	8.8
NNE		.6	1.2	. 6	• 6							3.0	11.5
NE		1.8	.6	3.0	+6							6.)	10.
ENE		3.0	2.4	6.7	1.8							14.0	11.
E	. 6	3.0	4.3	1.2	• 6	• 6	• 6			1		11.0	10.
ESE	• 6	2.4	1.8	3.7	2.4	• 5			1			11.6	12.
SE	1.2	•6	1.2	1.2	2.4	1.8	<u> </u>					8.5	14.
SSE			.6			1	<u> </u>		<del> </del>		<del></del>	• 6	7.
s	. 5	1.2	2.4	.6	•6		1.2		<u> </u>			6.7	12.
ssw			1.2							1		1.2	7.
SW	.6	1	1.2	3.0							<del></del>	4.9	10.
wsw	. 5	.6	.5	2.4					<del>                                     </del>			4.3	9.
w		1.2	3.0	3.0					<del>                                     </del>	<u> </u>		7.3	9.
WNW	2,4	1.2	. 6	2.4		l				<del></del>	<del></del>	6.7	7.
NW	. 6	2."	.5	.6		<del>                                     </del>			<del> </del>			4.3	6.
NNW		1.2	2.4		.6				<del>                                     </del>		<del></del>	4.3	8.
VARSL			1	<b></b>		l		<u> </u>	<del> </del>	<del> </del>		7.63	- 3.
CALM	$\times$	> <	><	><	> <	> <	> <	> <	> <	> <	> <		
	8.5		25.6	29.9	9.8	3.7	1.8					100.0	10.

TOTAL NUMBER OF OBSERVATIONS 164

> WNW NW

> NNW

VARBL

#### SURFACE WINDS

NOV

5.3 5.0

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-79

STATION			STATIO	NAME					Y	EARS			2	TONTH
						ALL WE							0900	-1100
						GL	A\$\$						HOUR	IS (L.S.T.)
						CON	DITION							
		_												
	SPEED (KNT\$) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
	N	1.2	3.0	1.8									6.0	5.2
[	NNE	5	2.4	• 6		• 6							4.2	6.9
I	NE	1.2	. 6			.6							2.4	7.0
	ENE	1.2	1.2	1.8	1.2	3.0							8.4	11.3
[	ŧ		1.8	4.2	7.2	• 6		• 6					14.5	12.3
Į	ESE		1.8	1.8	3.6	1.8			l				9.0	12.0
1	SE		1.8	_ • 6	1.8	1.2	• 6	1.2					7.2	15.2
	SSE		1.2	3.0									4.2	8.3
	S		1.2	1.2				• 6					3.0	10.6
	SSW	.6	2,4	1.2		l		1.2					5.4	11.6
[	sw	. 6	1.2	1.2	3.0								6.0	9.6
ĺ	wsw	.6	1.8	3.0	• 5	1.8		,					7.8	10.1

• 6

TOTAL NUMBER OF OBSERVATIONS 1.6.6

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C

0

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0 <u>000</u> 2	MAUT OPTICAL SITE HE SOUTH TOWER	78-79	NOV_				
STATION	STATION NAME	YEARS	MONTH				
	ALL WEATHER						
	CLA	188	HOURS (L.S.T.)				

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 · 40	41 - 47	49 · 55	≥54	*	MEAN WIND SPE°D
N	1.2	1.2		• 6								3.0	5 4
NNE	• 6		• 6	, 6								1.8	8.0
NE	• 6	• 6	• 6	1.8	1.2	• 6						5.4	13.0
ENE	• 6	1.8	3.0	2.4		• 6						8.4	9.7
E		1.8	2.4	4.2	1.2	• 6						10.2	12.2
ESE	2.4	1.8	• 6	3.0	1.8							9.5	9.7
SE			1.2	3.6	1.2		• 5					6.6	14.9
388	• 5	1.2	• 6	1.8	. 6	1.2	• 6					6.5	14.3
S		1.2	1.8	. 6							L	3.5	8.3
SSW	2.4	1.8	.6	.6		1.2						5.6	8.9
sw	• 5	2.4	.6	1.2	1.8							6.5	9.9
WSW	• 6	1.8	1.8	3.6		1.2						9.0	11.9
W	1.8	4.2	3.6	1.2			,					10.8	7.2
WNW	1.8	3.6	. 6	.6								6.5	5.2
NW	. 6	1.2	1.2								<u> </u>	3.0	5.2
NNW	1.2	. 5	.6								<u> </u>	2.4	4.5
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	15.3	25.1	19.8	25.7	7.8	5.4	1.2					120.2	9.9

TOTAL NUMBER OF OBSERVATIONS 167

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

20002	MAUL OPTICAL SITE HI SOUTH TOWER	78-79	NOV				
STATION	STATION NAME	YKARS	MONTH				
ALL HEATHER							
	CLASS						

SPEED (KNTS) DIR,	1.3	4 - 6	7 - 10	11 - 16	17 - 31	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.2	1.2	2.5									4.9	5.6
NNE		• 6	•6									1.2	7.0
NE		. 6	1.2	1.2	1.2							4.3	11.4
ENE	• 6	1.8	2.5	2.5	1.8	1.2					<u> </u>	10.4	12.4
	1	1,2	3.1	3.1	1.8	1.2			<u> </u>			10.4	13.6
ESE	• 6	1.8	.6	6.7	1.8			ļ <u>-</u>			<u> </u>	11.7	11.8
SE	• 5	1.2	1.2	1.8	1.8				<u> </u>			6.7	11.1
322		1.8	1.8	.6				ļ		<b></b>	ļ	4.9	9.9
S		1.2	-6									1.8	6.3
SSW	1.2	2.5	•6		Ļ	• 6		<u></u>				4.9	7.0
sw		. 6	1.2	• 6	2.5	• 6	•6	ļ				6.1	16.1
WSW	• 6	. 6	1.2	3.1		2.5				ļ		8.0	14.5
w	• 5	2.5	2.5	• 6		ļ						6.1	6.9
WNW	1.8	3.1	2.5	<u> </u>				<b></b>				7.4	5.8
NW	1.8	4.9	1.2		ļ					ļ		8.0	4.8
NNW	• 6	1.8	• 6		ļ			ļ			ļ	3.1	4.8
VARBL	<del></del>		<b>_</b>	Ļ.—,				<u> </u>			<del></del>	<b>!</b>	<b> </b>
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	9.8	27.5	23.9	22.2	11.0	5.7	. 6					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC

AIR WEATHER SERVICE/MAC

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

30332	MAUI OPTICAL SITE HI SOUTH TOWER	78-79	NOV			
STATION	STATION NAME	YEARS	MONTH			
	ALL WEATHER					
	GL/	148	HOURS (L.S.T.)			
	COND	ITION				

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	2.4	1.2	1.2									4.8	4.8
NNE	• 6	1.2	1.8	, 6								4.2	6.7
NE		• 6	3.6		. 6			<u></u>				4.8	9.4
ENE			4.2	3.6	3.0							10.7	12.6
E		• 6	6.5	5.4	3.0	2.4	1.8					19.5	15.0
ESE		• 6	2.4	3.0	1.2							7.1	12.1
SE	• 6	• 6	. 6									1.8	4.7
SSE	• 6	• 6		• 6	• 6	1.2						3.6	15.3
<u> </u>		l	.6	1.2								1.3	12.7
SSW	6	1.2	1.8			• 6						4.2	8.7
\$W	1.2	1.2	1.2	• 6	2.4	1.2						7.7	12.8
WSW	. 5		1.8	3.0		1.2		I				6.5	13.5
w	1.8	3.0	. 6	1.2	1.2	. 6						8.3	8.7
WNW	1.2	1.8	2.4									5.4	5.6
NW	1.2	1.2	1.2	.6								4.2	6.0
NNW	1.2	4.2										5.4	5.2
VARBL													
CALM	$\times$	$\geq \leq$	$\geq$	$\times$	$\boxtimes$	$\times$	$\times$	$\boxtimes$	$\boxtimes$	$\geq$	$\times$		
	11.9	17.9	29.8	19.6	11.9	7.1	1.8					100.0	10.8

TOTAL NUMBER OF OBSERVATIONS

USAFETAC  $\frac{\text{form}}{\text{AM}-64}$  0-8-5 (OL-A) previous editions of this form are obsolete

GLOBAL CLIMATOLOGY BRANCH USAFETAC

AIR WEATHER SERVICE/MAC

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

OBDO2	MAUT OPTICAL SITE HI SOUTH TOWER	78-79	NC.A.
		ATHER	2130-2300 HOURS (L.S.T.)
	CON	DIVION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.8	1.8	1.8									5.4	5.0
NNE		1.2	3.0									4.2	7.6
NE		2.4	1.8									4.2	6.7
ENE	• 6	1.8	1.8	5.4	1.2	• 6						11.4	11.6
ŧ		1.8	3.0	4.8	4 . 2	4.2						18.0	15.5
ESE		2.4	3.0	4.8	1.2							11.4	10.6
SE	. 6		1.8	1.2								3.6	10.0
SSE		• 5										• 6	6.0
S	. 6	Ī ———	• 6	• 6								1.8	8.3
SSW		2.4	2.4	1.8		1.2	• 6					8.4	12.1
SW	1.8	1.2	1.2	• 6	1.8	1.2			i			7.8	11.4
WSW	• 6	1.8	• 6	2.4	.6	1.2	• 6					7.8	13.8
w	.6	2.4	2.4									5.4	6.2
WNW	1.8	1.2	.6									3.5	4.3
NW	1.2	• 6	1.8									3.6	5.3
NNW	1.8	• 6	• 6									3.0	3.8
VARBL													
CALM							$\sim$	$\overline{}$			$\overline{}$		

TOTAL NUMBER OF OBSERVATIONS	i	167	
		<u> </u>	

THE PROPERTY.

#### SURFACE WINDS

YEARS

TOTAL NUMBER OF OBSERVATIONS

NOV

1326

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 78-79

STATION NAME

	-				ALL WE	ATHER						HOUF	<u>L l</u>
	_	<del></del>			CON	DITION			<del>,</del>	<del></del>			
SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 · 55	≥54	*	
N	1.4	1.5	1.5	• 5		• 1						5.1	
NNE	• 6	1.2	1.5	• 3	• 2							3.8	Γ
NE	• 5	1.1	1.4	1.6	. 8	• 2						5.4	] 1
ENE	. 4	1.4	2.9	3.5	1.8	• 5						10.5	
<u> </u>	• 2	1.7	3.8	4.8	2.1	1.4	• 4					14.3	
ESE	. 7	1.7	2.0	4.0	1.6	. 4						10.3	
SE	• 5	. 7	• 9	1.7	. 8	. 4	• 2					5.1	1
SSE	, 4	. 8	• 8	. 4	• 2	• 5	• 1					3.1	
	• 2	.6	1.0	• 5	-1	.2	.2					2.6	L
5SW	. 6	1.5	1.4	• 6	.2	.6	• 5					5.4	Ľ
SW	<u>. 8</u>	1.7	1.6	1.5	1.2	. 4	• 1				<u> </u>	6.5	1
W\$W	• 5	1.1	1.3	2.2	•5	. 8	• 2					6.6	1
W	1.7	2.1	2.6	1.9	. 3	.1	<b> </b>		<u> </u>	<u> </u>	<u> </u>	7.9	L
WNW	1.6	2.0	1.2	• 5	-1	-1	<u> </u>	<u> </u>				5.5	L
NW	1.3	2.1	. 9	. 4				ļ		<u> </u>	<u> </u>	4.4	L
VARBL	1.2	1.6	• 7	• 1	• 2						<del> </del>	3.7	╀╌
CALM	><	> <	> <	> <	>	> <	>	> <	> <	>			İ
	11.3	21.9	25.3	24.4	10.0	5.5	1.6		3	· · · · · · · ·		100.0	

TOWN TRUE

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUL OPTICAL SITE HI SOUTH TOWER	_77-79	
STATION	STATION NAME	YEARS	MONTH
	0000-0200		
	CL	A88	HOURS (L.S.T.)
	CONI	OLTION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	• 6	1.1	• 6	1.1	• 6	• 6						4.5	10.8
NNE	• 6	• 6	• 6	2.3	1.1	• 6						5.6	12.8
NE	,6		1.7	2.8	2.8	3.4	1.7	.6				13.5	18.6
ENE	• 6		5.1	3.4	3.4	1.1	• 6	1.1				15.3	15.7
ŧ	• 6	• 6	2.3	2.8	1.1							7.3	10.5
ESE		• 6	• 6	1.1	6							2.8	11.0
SE	.6	• 6		1.1								2.3	8.0
SSE	. 6	• 6	1.1	2.8								5.1	9.7
\$		1.1	• 6	2.8								4.5	10.4
SSW		2.3	• 6	.6								3.4	7.2
sw		• 6	2.8	1.7	1.1			<u> </u>		<u> </u>		6.2	11.9
WSW	1.1	• 6	1.1	5.1	1.7			<u> </u>		<u> </u>		9.5	11.5
w	1.1	• 6	.6	2.3	• 6							5.1	9.8
WNW	. 5	• 6	2.3	1.1	.6					ļ		5.1	9.9
NW	1.1		• 6	1.1	• 6					<u> </u>	ļ	3.4	9.0
NNW	1.7	1.7		1.7	• 6	.6						6.2	9.8
VARBL	<u></u>											<u> </u>	
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	9.6	11.3	20.3	33.9	14.7	6.2	2.3	1.7				100.0	12.4

TOTAL NUMBER OF OBSERVATIONS

0

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SCOBC	MAUI OPTICAL SITE HI SOUTH TOWER 77-79 STATION NAME YEARS	DEC MONTH
	ALL WEATHER	0300-0500 HOURS (L.S.Y.)
	CONDITION	

	· · · · · · · · · · · · · · · · · · ·		,	·									
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
7	•6	• 6	1.7	•6	2.3			• 6				6.2	14.5
NNE			1.2	1,7	2.3	1.7						6.8	17.3
NE			1.7	4.5	1.1	2.3	1.7					11.4	17.7
ENE			4.0	4.0	2.8	1.1		• 6				12.5	15.1
	• 5	1.1	•6	2.8								5.1	9.7
ESE		2.3		2.3								4.5	8.9
SE	.6	2.8	.6	.6								4.5	6.3
SSE		6		2.8								3.4	11.8
S	1.1	1.1		1.1		<u> </u>						4.0	7.1
SSW	• 5	1.1	1.1	1.7	<u> </u>	,6						5.1	9,7
SW	1.1	1.1	1.1	2.3	1.7	. 6						8.0	11.9
WSW		3.4	1.1	1.7	.6							6.8	8.8
w	1.7	1.1	1.7	.6								5.1	5.3
WNW			1.7_	.6	. 6	<u> </u>						2.8	11.4
NW	1.1	2.3	1.7	2.3	1.1	<u> </u>						8.5	9.3
NNW	1.7		1.1	1.1	.6			.6				5.1	12.0
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		
	9.1	17.6	19.9	30.7	13.1	5.2	1.7	1.7				130.0	11.9

TOTAL NUMBER OF OBSERVATIONS

2

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DDD2	MAUL OPTICAL SITE HI SOUTH TOWER	77-79	DEC MONTH
		THER	7600-0800 HOURS (L.S.T.)
	CONE	ITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N		1.2	1.7	• 6	• 6		• 6	• 6				5.2	15.0
NNE	1.2		• 6	4.6	2.9	1.2						10.4	14.3
NE		• 6	1.7	2.9	1.2	3.5	•6					10.4	17.2
ENE			2.3	5.8	1.7	2.3	• 6	.6				13.3	17.4
E	• 5	1.2	3.5	1.2								6.4	8.2
ESE	.6	2.3	. 6	1.7	• 6							5.8	8.9
SE			2.3									2.3	8.3
SSE	. 6	1.2	• 5	. 6								2.9	5.8
S		1.2	1.2			• 6						2.9	9.8
SSW	• 5	2.9	2.9	2.3	2.3							11.0	10.5
SW	. 5	1.7	2.3		1.2			I				5.8	9.2
wsw	. 6		1.2	1.7	• 6	• 6	• 6					5.2	15.2
w	1.2		2.9	• 6	. 6				• 6			5.8	12.1
WNW			2.3	1.7								4.8	11.1
NW	- 6			1.7	• 6							2.9	12.2
NNW		1.2	2.9	1.2		• 6						5.8	9.8
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\ge$	$\boxtimes$	$\geq$	$\geq \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$\boxtimes$	$\geq \leq$	$\boxtimes$	$\boxtimes$	$\geq \leq$		
	6.4	13.3	28.9	26.6	12.1	8.7	2.3	1.2	. 6			100.0	12.6

TOTAL NUMBER OF OBSERVATIONS 173\_

USAFETAC  $\frac{\text{FORM}}{\text{JUL 64}}$  0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

<u> 2002</u> 6	MAUL OPTICAL SITE HE SOUTH TOWER	77-79	030
STATION	STATION NAME	YEARS	MONTH
	ALL WE	ATHER	0900-1100
	C	LASS	HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.5	2.4	1.6	.6			1.2					6.5	11.1
NNE	.6		1.8	2.4	3.6	• 6	• 5					9.5	15.6
NE	1.2	2.4	1.2	4.7	1.8	• 6						11.5	11.4
ENE	• 6	• 6	1.2	.6	1.2	3.0	1.8		• 6			9.5	21.3
£		• 6	1.8				• 6					3.0	12.2
ESE			1.8	3.0	.6							5.3	12.1
S.E	. 6	2,4	1.6	• 6								5.3	7.1
SSE	. 5	1 . R	• 6	.6								3.5	7.0
S			• 6	.6	. 6	• 6						2.4	15.8
ssw	. 5	2.4	2.4	3.0		. 6						8.9	9.5
sw	1.2	• 5	1.8		•6	• 6						4.7	9.8
WSW		3,7	2.4	1.2	1.2	1.2	• 6	• 6				10.1	14.7
w	• 5	1.8	.6									3.0	5.2
WNW	1.2	1.8	1.2	.6			·					4.7	5.8
NW		1.2	2.4	3.6	• 6							7.7	10.0
WHW		.6	.6	1.2	1.2		•6					4.1	15.1
VARBL													
CALM	$\times$	$\supset <$		$\supset \subset$	> <	> <	$\times$	$\times$	> <	$\supset \subset$	> <		
	7.7	21.3	23.7	22,5	11.2	7.1	5.3	.6	.6			100.0	12

TOTAL NUMBER OF OBSERVATIONS

. C.

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAUI OPTICAL SITE HI SOUTH TOWER 77~79 WEATHER CLASS 1200-1400 HOURS (L.S.T.) CONDITION

SPEED (KNTS) DIR.	1 - 3	4+4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	. 6	1.2	2.4	1.8								5.3	8.6
NNE	1.2	1.2	• 6	3.0	1.2	• 6	• 5					8.4	13.6
NE	• 5	1.2	• 6	4.8	3.0	3.0	• 6					13.8	16.7
ENE		. 6	1.2	• 6	1.2	1.8		.6	. 6	. 5		7.2	22.4
E		1.2	1.2		1.2							3.6	10.7
ESE			• 6	2.4	• 6							3.6	13.7
SE		• 6		2.4								3.0	10.4
SSE			1.2									1.2	7.0
S	. 5	3.6	.6	1.2	. 6	• 6						7.2	9.3
SSW	• 6	. 6	2.4	1.8	1.2	• 5						7.2	11.3
sw		. 6	3.0	2.4	1.8	• 6						8.4	12.3
wsw	1.2		1.2	• 6	2.4							5.4	12.2
w	• 6	2.4	• 6	.6								4.2	6.4
WNW		1.8	3.5	.6	• 6							6.6	8 . 5
NW	3.0	1.8	2.4	1.2								8.4	6.2
NNW		2.4	1.2		• 6	1.2		• 5				6.0	13.8
VARBL													
CALM		> <	$\boxtimes$	$\times$	><	$\times$	$\geq$	$\times$	$\times$	$\times$	$\mathbb{X}$		
	8.4	19.2	22.8	23.4	14.4	8.4	1.2	1.2	. 5	• 6		100.0	12.2

TOTAL NUMBER OF OBSERVATIONS

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUI OPTICAL SITE HI SOUTH TOWER	77-79	DEC MONTH								
	ALL WEATHER  GLASS										
	CON	IDITION									

SPEED (KNTS) DIR.	1.3	4.0	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
н	. 6	2.3	1.1	1.1								5.1	7.1
HHE	. 6		2.9	. 6	1.1	3.4		1.1				9.7	18.4
NE	. 6	6	2.9	6.3	3.4	1.1	• 6		I			15.4	14.3
ENE	1.7	1.7	1.7	1.7	[	2.3	•6	.6	1			10.3	14.3
E	. 5	. 6		• 6	.6				. 5			2.9	17.0
ESE	.6	1.7		• 5	1.7	• 5						5.1	12.1
SE		. 6	1.1	• 6	1.1							3.4	12.0
SSE		1.1	2.3		.6				T	1		4.0	8.4
\$			2.3	1.1	.6							4.0	11.3
SSW		1.7	• 6	2.3	.6	1.1						6.3	12.5
SW	II		. 6	1.7	2.3							4.5	15.5
wsw	ó	. 6	1.7	3.4	.6			1	1			6.9	10.6
W	1.1	1.7	2.9	2.3		• 6						8.5	8.5
WNW	.6	. 6	2.9	• 6		• 6						5.1	9.8
NW		.6	1.1	1.7				T				3.4	10.0
MNM		• 6	2.3	.6	1	1.1		.6				5.1	15.0
VARBL	1		1			1			7	1	1	I	1
CALM		$\boxtimes$	$\geq$	$\geq \leq$	$\geq$	$\boxtimes$	$\geq \leq$	$\boxtimes$	$\geq$	$\boxtimes$	$\geq$		
	6.9	14.3	26.3	25.1	12.6	10.9	1.1	2.3	. 6			00.0	12.7

TOTAL NUMBER OF OBSERVATIONS 175

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CCCCC	MAUI OPTICAL SITE HI SOUTH TOWER	77-79	DEC MONTH
		ATHER LASS	1800-2000 HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥\$4	*	MEAN WIND SPEED
N	1.1	. 6	1.1	. 6	. 6	.6						4.4	9.8
NNE	6	2.2	3.3	2.8	3.3	3.3	• 6					16.1	14.8
NE	• 6	• 6	3.3	1.7	3.9	1.1	. 6	• 6				12.2	16.2
ENE				4.4	1.1	1.1		1.1				7.8	19.1
ŧ			• 6	1.7		• 6	• 6	• 5		i		3.9	19.7
ESE		• 6		2.2	• 6							3.3	12.8
SE	• 5	1.1	.6	. 6	• 6							3.3	8.7
SSE		!	2.2	1.7								3.9	10.4
S			2.2	2.8	1.7							6.7	12.3
ssw			.6	1.1	1.7	1.1						4.4	16.9
sw	1.7											1.7	2.7
WSW			3.3	5.0	.6			$\overline{}$				8.9	11.7
w	• 6	• 6	3.9	3.3								8.3	9.0
WNW	.6	1.1	1.7	1.1								4.4	7.5
NW	• 5	• 6	2.2	• 6	1.1	• 6						5.6	10.5
NNW		• 6	1.1	1.7	• 6	1.1		i				5.0	13.8
VARBL									<del></del>			I	1
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq$	$\geq \leq$	$\times$	$\geq \leq$	$\geq$	$\geq \leq$	$\geq$	$\geq \leq$		
	6.1	7.8	26.1	31.1	15.6	9.4	1.7	2.2				100.0	13.2

TOTAL NUMBER OF OBSERVATIONS

(1

1

C

#### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00002	MAUL OPTICAL SITE HI SOUTH TOWER		DEC
STATION	STATION NAME	YEARS	MONTH
	ALL WE	ATHER	2100-2300
	CL	.ASS	HOURS (L.S.T.)
	CON	DITION	

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	40 · 55	≥54	*	MEAN WIND SPEED
N	• 5		1.6	1.6	4.5	• 5						4.3	12.0
NNE	• 5		1.1	2.2	1.6		1.6			<del></del>	<del></del>	7.0	16.9
NE	1.1	2.7		5.4	3.2	3.8	• 5	1.1	1.1			18.8	18.0
ENE		• 5	1.6	2.7	• 5	• 5	• 5	1.6				8.1	18.9
Ę			1.5	3.2	1.1	• 5			• 5			7.0	16.2
ESE			2.2	• 5	1.6							4.3	12.0
SE			1.1	• 5						1		1.5	11.3
SSE		. 5	• 5									1.1	7.0
5			1.1	3.8	1.1							5.9	12.0
SSW		1.1	1.1		1.6			ļ				3.8	11.3
SW	• 5		2.2	2.2	• 5							5.4	10.1
WSW		• 5	2.7	2.7	• 5							6.5	11.3
w	, 5	1.6	3.2	3.2	• 5							9.1	9.5
WNW	2.2	1.6	1.1	1.1								5.9	6.4
NW	.5	• 5	1.1	1.1								3.2	8.7
NNW	1.1		1.6	2.2	• 5	1.6	•5					7.5	14.2
VARBL													
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq <$	$\times$	><	$\geq$	$\supset <$		$\times$		
	7.5	9.1	23.7	32.3	13.4	7.0	3.2	2.7	1.6			100.0	13.5

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SCCC C	MAUL CHICAL SITE HE SOUTH TOWER	77-79	DEC MONTH				
	ALL WEATHER						
	CON	DITION					

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	•6_	1.1	1.5	1.0	• 6	• 2	• 2	•1				5.3	11.2
NNE	• 5	• 5	1.5	2.4	2.1	1.4	. 4	• 1				9.2	15.5
NE	• 6	1.0	1.6	4.1	2.6	2.4	• 8	• 3	• 1			13.5	16.4
ENE	. 4	• 4	2.1	2.9	1.5	1.6	• 5	• 8	• 1	• 1		10.5	17.5
Ę	• 3	• 6	1.4	1.6	• 5	• 1	• 1	.1	• 1			4.9	12.6
ESE	. 1	• 9	. 7	1.7	• 8	• 1						4.3	11.3
SE	. 3	1.0	• 9	• 8	• 2				L			3.2	8.6
SSE	. 2	. 7	1.1	1.1	. 1							3.1	9.0
S	• 2	• 9	1.1	1.7	• 6	• 2						4.7	10.8
SSW	• 3	1.5	1.4	1.6	• 9	• 5						6.2	11.0
sw	• 5	• 6	1.7	1.3	1.1	• 2				<u> </u>		5.6	11.2
wsw_	. 4	1.0	1.9	2.7	1.0	• 2	.1	• 1				7.4	12.0
w	. 9	1.2	2.1	1.6	• 2	.1			•1	<u> </u>		6.2	8.7
WNW	. 6	. 9	2.1	. 9	. 2	• 1		<u></u>				4.8	8.6
NW	. 9	. 9	1.4	1.6	. 5	• 1						5.3	9.2
NNW	• 5	. 9	1.4	1.2	• 5	• 8	• 1	• 2	<u></u>	<u></u>		5.6	12.9
VARBL									<u></u>			<u> </u>	
CALL'	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\times$		
	1.6	14.1	23.9	28.3	13.4	8.0	2.4	1.7	, 5	•1		100.0	12.5

TOTAL NUMBER OF OBSERVATIONS

1403

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

5000	MAUL OPTICAL SITE HE SOUTH TOWER	77-80	ALL	
STATION	STAYION NAME	YEARS	MONTH	
	ALL W	ALL_		
		HOURS (L.S.T.)		

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	• 5	1.2	1.5	1.1	• 5	• 2	• 1	• 0				4.9	10.0
NNE	. 4	1.3	2.1	2.4	• 8	• 3	• 1	• #				7.3	11.2
NE	• 5	1.4	2.4	2.8	1.1	• 4	•1	• 0	.0			8.5	11.5
ENE	.4	1.6	3.1	3.7	1.4	• 5	• 1	. 1	• 0	• 0		10.8	11.9
ŧ	. 4	1.5	2.4	2.5	1.2	• 5	• 1	•0	• 0			8.7	11.6
ESE	.4	1.3	2.0	2.0	• 6	• 2	•0	• 0				6.5	10.4
SE	.5	1.5	2.3	2.3	. 8	. 4	• 1	• 0				7.8	10.8
SSE	• 5	1.0	1.5	1.9	1.0	• 7	• 3	• 1		٠.0	• 0	6.8	13.2
S	.5	1.3	1.3	1.4	. 8	. 4	• 1	• 0				5.8	11.1
SSW	.7	1.2	1.1	1.1	• 5	. 4	. 1	•0				5.0	10.5
sw	, 2	1.1	1.0	1.1	• 5	• 3	• 1	• 1	• 0			5.0	10.8
wsw	. 7	• 9	• 9	1.0	• 5	• 3	•1	.0	0.			4.3	10.7
w	. 9	1.2	1.0	. 8	.4	• 3	• 1	•0	• 0			4.7	9.8
WNW	• 6	1.3	1.0	• 6	• 3	.1	• 0	• 0				4.1	8.
NW	. 7	1.3	1.0	1.0	• 5	• 1	.0	• 0				4.6	9.3
NNW	. 5	1.1	1.2	1.0	• 5	• 3	•1	•0				4.8	10.4
VARBL													
CALM	><	><	> <	$\geq$	$\supset <$	><	> <	$\geq$	$\triangleright <$		$\boxtimes$		
	9.1	19.8	25.9	26.6	11.3	5.3	1.5	• 5	Ι,	•0	• 2	100.0	Ī

TOTAL NUMBER OF OBSERVATIONS 17364